



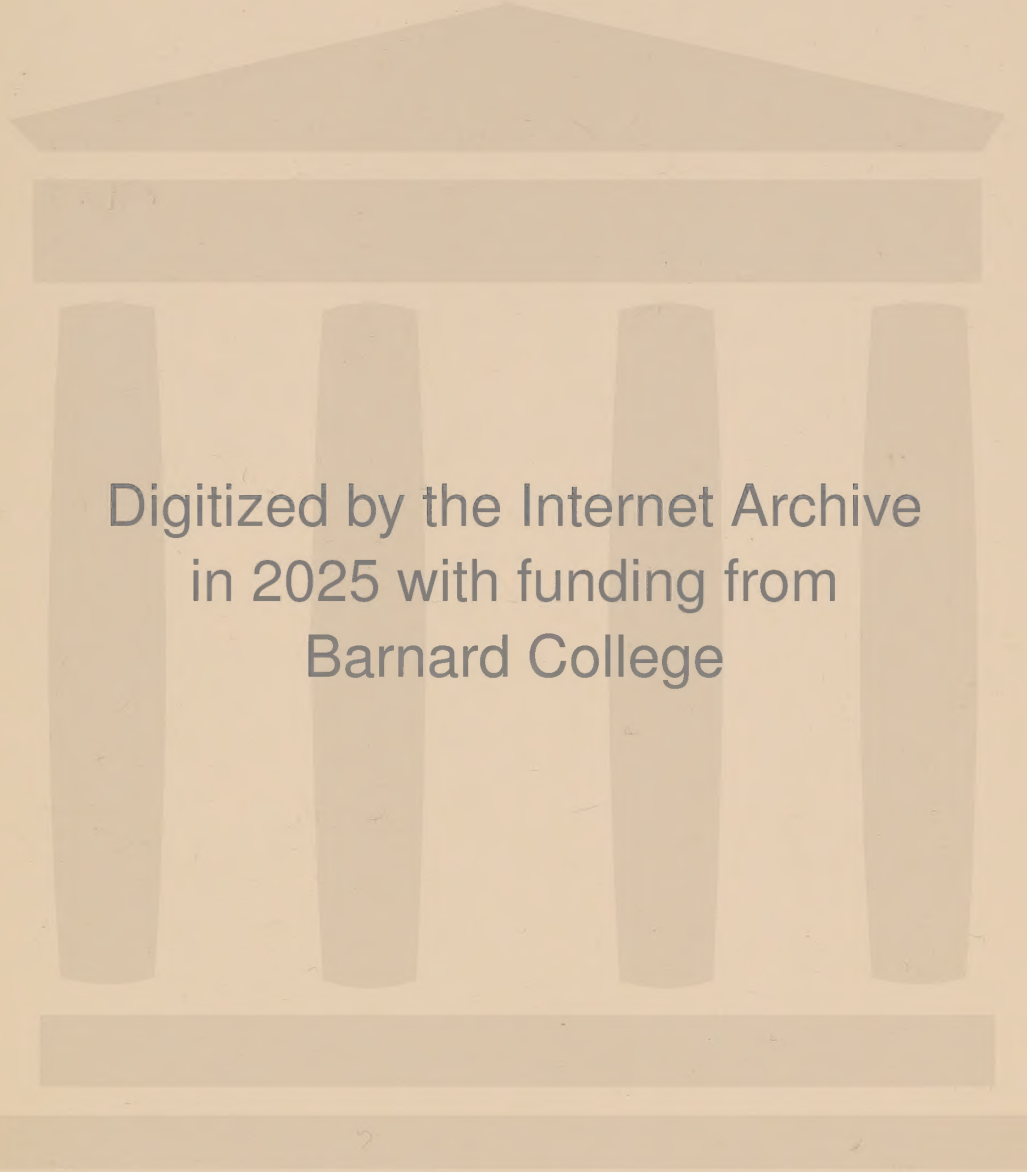
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Bulletin of Information

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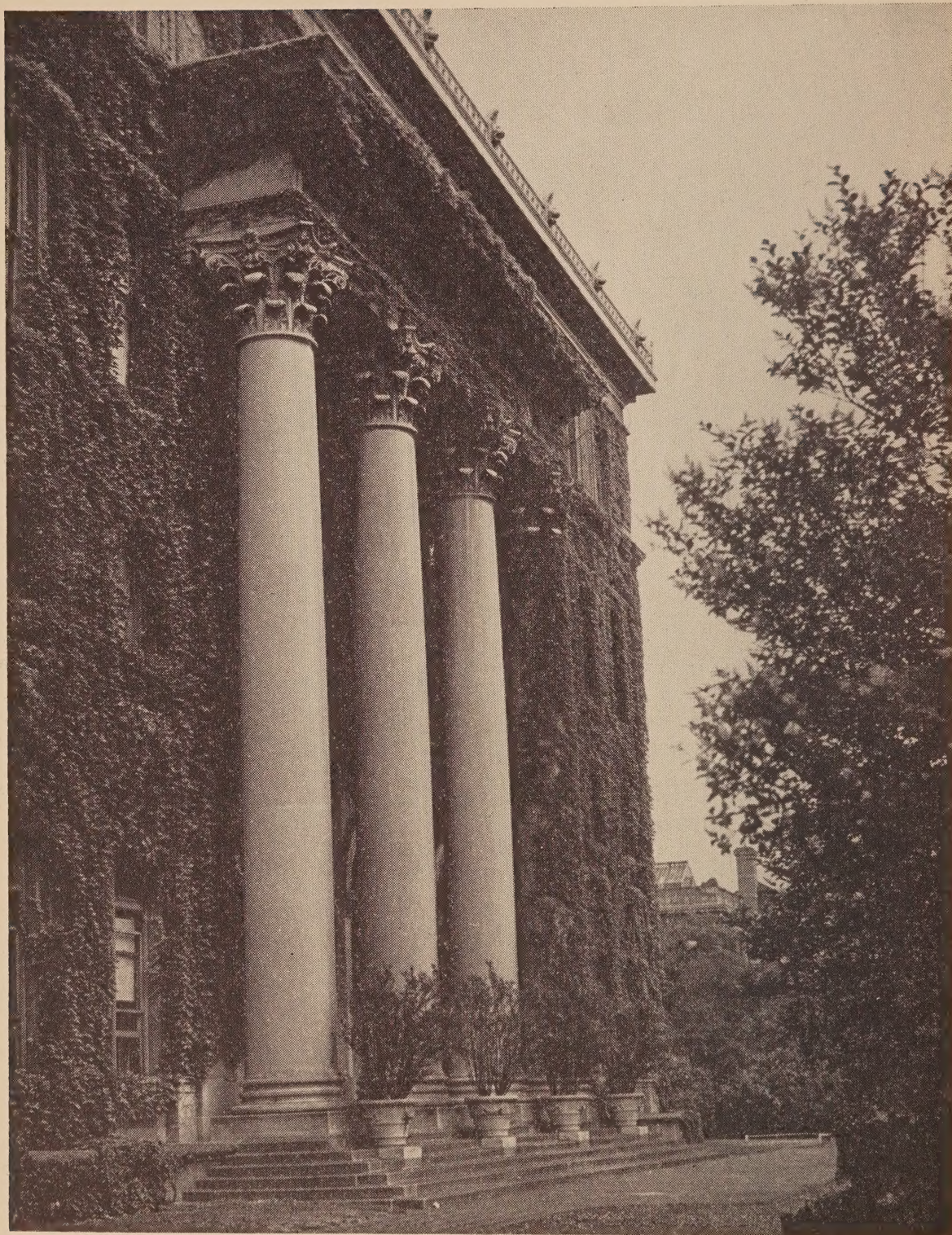
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¹ Absent on leave, Spring Session.

² Absent on leave, 1951-52.

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9

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 Barnard-in-Washington, D. C.
 Mrs. MORTON FINN
 6124 33 St., N.W.
 Washington 15, D. C.

Illinois

Barnard-in-Chicago
 Mrs. THOMAS FANSLER
 1400 Lake Shore Drive
 Chicago 10

Maryland

Barnard-in-Baltimore
 Mrs. WINSTON P. GWATHMEY
 104 W. University Parkway
 Baltimore 10

Massachusetts

Barnard-in-Boston
 Mrs. PAUL W. FAGER
 5 Thomas Road
 Wellesley 81

Michigan

Barnard-in-Detroit
 Mrs. LOUIS B. HEAVENRICH
 18714 Mendota
 Detroit 21

New Jersey

Barnard-in-Bergen
 Mrs. G. RANDOLPH SYVERSEN
 1094 Sussex Road
 West Englewood

New York State

Barnard-in-Brooklyn
 Miss ELIZABETH SIMPSON
 2510 Clarendon Road
 Brooklyn 26

Barnard-in-Buffalo

Mrs. DANIEL A. ROBLIN, JR.
 211 High Park Boulevard
 Eggertsville

Barnard-in-Capital District

Mrs. BENNETT REINES
 167 S. Main Avenue
 Albany 3

Barnard College Club of New York

Mrs. DANIEL PENSYL
 210 East 73rd Street
 New York City 21

Barnard in Rockland County

Mrs. HERBERT OWEN
 212 Holt Avenue
 Pearl River

Barnard-in-Westchester

Miss CLAIRE MURRAY
 46 Quarropas Street
 White Plains

*Pennsylvania**Barnard-in-Philadelphia*

Mrs. CHARLES G. STEHLE
 Rydal

Barnard-in-Pittsburgh

Mrs. EARL D. HOLLINSHEAD
 R. F. D. #1
 Library

*Texas**Barnard-in-Houston*

Mrs. MELVIN F. FINCKE
 910 Sul Ross
 Houston 6

*Washington State**Barnard-in-the-State-of-Washington*

Mrs. PHYLLIS H. COWAN
 1341 44, S. W.
 Seattle 6

ACADEMIC CALENDAR

1951-1952

1951

- Sept. 10 Monday. Interviews and registration for freshmen begin.
 Sept. 17 Monday. Deficiency examinations begin.
 Sept. 19 Wednesday. Foreign language tests.
 Sept. 24 Monday. Registration ceases for new students.
 The privilege of later registration may be granted on payment of
 a fee of \$15.
 Sept. 25 Tuesday. Winter Session, sixty-third year, begins. Classes begin.
 Oct. 16 Tuesday. Stated meeting of University Council.
 Nov. 6 Tuesday. Election Day. Holiday.
 Nov. 20 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
 *Nov. 22 Thursday, to November 25, Sunday, inclusive. Thanksgiving
 holidays.
 Dec. 1 Saturday. Entrance tests of the College Entrance Examination Board.
 Dec. 18 Tuesday. Stated meeting of University Council.
 Dec. 24 Monday, to

1952

- Jan. 6 Sunday, inclusive. Christmas holidays.
 Jan. 12 Saturday. Entrance tests of the College Entrance Examination Board.
 Jan. 20 Sunday. Annual Commemoration Service in St. Paul's Chapel.
 *Jan. 21 Monday. Students excused from classes.
 *Jan. 22 Tuesday. Mid-year examinations begin.
 *Feb. 1 Friday, to
 Feb. 5 Tuesday. Registration for students matriculating for the first time.
 The privilege of later registration may be granted on payment of
 a fee of \$15.
 *Feb. 6 Wednesday. Classes begin.
 Feb. 19 Tuesday. Stated meeting of University Council.
 *Feb. 22 Friday. Washington's Birthday. Holiday.
 March 1 Saturday. Last day for filing applications for non-competitive
 scholarships, grants-in-aid, and residence grants.
 March 15 Saturday. Admission and scholarship tests conducted by the College
 Entrance Examination Board.
 April 6 Sunday, to April 13, Sunday, inclusive. Easter holidays.
 April 15 Tuesday. Stated meeting of University Council.
 *May 12 Monday, through May 17, Saturday, seniors excused from class
 attendance.
 *May 14 Wednesday, through May 16, Friday, Major Examinations.
 May 17 Saturday. Entrance tests of the College Entrance Examination Board.
 *May 19 Monday. Undergraduates excused from classes.

* These dates are to be submitted to the University Council in October for approval.

1952

- May 20 Tuesday. Final examinations begin.
- *May 30 Friday. Memorial Day. Holiday.
- May 31 Saturday. Spring Session ends.
- June 1 Sunday. Baccalaureate Service.
- June 5 Thursday. Conferring of degrees.
- July 4 Friday. Independence Day. Holiday.
- July 7 Monday. Fifty-third Summer Session of Columbia University begins.
- Aug. 1 Friday. Last day for filing applications for deficiency examinations.
The privilege of later application may be granted on payment of a fee of \$5.
- Aug. 13 Wednesday. Entrance tests of the College Entrance Examination Board.
- Aug. 15 Friday. Fifty-third Summer Session ends.
- Sept. 8 Monday. Interviews and registration for freshmen begin.
- Sept. 15 Monday. Deficiency examinations begin.
- Sept. 22 Monday. Registration ceases for new students.
The privilege of later registration may be granted on payment of a fee of \$15.
- Sept. 23 Tuesday. Winter Session, sixty-fourth year, begins. Classes begin.

* These dates are to be submitted to the University Council in October for approval.

24 Wed - Columbia
Sept. 25 Thursday - Barnard
2

HIGHLIGHTS IN BARNARD HISTORY

Barnard College is the women's undergraduate college of liberal arts and sciences in Columbia University, and its graduates receive from Columbia the degree of Bachelor of Arts. Although it is closely allied with Columbia educationally, Barnard has remained financially independent, with its own Faculty and Board of Trustees.

Established in 1889 under a charter granted by the State of New York, the College was named for Frederick A. P. Barnard, President of Columbia from 1865 to 1888, who had been for years an ardent advocate of the admission of women to Columbia. In the fall of 1889, seven instructors were selected from the teaching staff of Columbia to teach a student body composed of fourteen regular students and twenty-two special students. At that time the "campus" consisted of a rented building at 343 Madison Avenue. In 1897, the College moved to its present site on Broadway, just west of the main buildings of Columbia.

Barnard was formally incorporated into the educational system of the University in 1900. Under the provisions of an agreement made at that time and still in force today, the President of the University is *ex officio* President of Barnard College, and Barnard professors, nominated by the Dean and appointed by the University with the approval of the President and Trustees, rank as professors of the University. Barnard is represented on the Columbia University Council by the Dean and two elected representatives of the Faculty. Barnard's Dean, who is appointed by the President with the advice and consent of the Trustees of Barnard, is responsible for the administration of the College.

Currently, the College owns equipment, buildings, and grounds with a book value of \$4,500,000 and holds endowment funds providing a net income of about \$350,000. Approximately eleven hundred girls attend classes at the College annually, coming from every part of the United States and from many foreign nations. An estimated two-thirds of Barnard's students live in New York City and surrounding areas.

Admission, Registration, Fees,
and Faculty Regulations

ADMISSION

The Committee on Admissions selects for admission those candidates whose credentials show the strongest evidence of good character, health, academic ability, and intellectual interest. In selecting the entering class, the Committee attaches particular importance to the school record, the principal's recommendations, the personal interview, and the results of the examinations of the College Entrance Examination Board. The Director of Admissions welcomes an opportunity to meet candidates, their parents, and school advisers.

In choosing its students, the College keeps in mind the desirability of having a student body which represents a wide range of schools and regions in the United States and abroad.

A student who has fulfilled the preliminary qualifications as a candidate for a degree is enrolled as a matriculated student of Columbia University and is considered a student of the University as long as her registration is held valid. No Barnard student may be registered at the same time in any other school or college, even of the University itself, without the consent of the Dean.

In exceptional circumstances an applicant may be admitted to Barnard as a nonmatriculated student, with permission to attend courses for which she is qualified, but not as a candidate for a degree. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students, and they may receive a formal statement of the satisfactory completion of any course. (See also Admission as Special Students, p. 20.)

Application for admission should be made before February 1st of the year of entrance. However, it is desirable to make application by the end of the junior year, or the fall of the senior year, in secondary school. Application forms may be obtained by writing to the Director of Admissions, Barnard College. A \$10.00 application fee must accompany each application. *This fee is not refundable in the event of rejection or withdrawal.*

QUALIFICATIONS FOR ADMISSION TO FRESHMAN CLASS. Candidates for admission to the freshman class, admitted in September of each academic year, must be at least fifteen years of age and must submit the following credentials:

1. Satisfactory evidence of good character, personality, and promise. This is obtained from confidential reports from the applicant's secondary school principal and teachers, and, whenever possible, through a personal interview with the applicant by a member of the Admissions Office staff. A photograph must be submitted with the application.
2. Satisfactory evidence of adequate health. A health history and the report of a health examination must be submitted to the Admissions Office as soon as the applicant is accepted.
3. Satisfactory evidence of good preparation and intellectual ability. By good preparation is meant graduation from an approved secondary school, or

equivalent education acceptable to the College, representing a four-year course. Such a course ordinarily includes four years' work in English, three years' work in one foreign language and two years in another, a year in algebra, and a year in plane geometry. The rest of the course should consist mainly of history, science, additional languages, mathematics, music, and art. For premedical students additional work in mathematics and German is advised. Pre-engineering students are required to take three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics, and chemistry.

The Committee on Admissions is always willing, however, to consider the applications of students whose preparation may vary somewhat from the usual pattern, but whose records give evidence of genuine intellectual ability and interest.

Intellectual ability is tested by means of the College Entrance Examination Board Scholastic Aptitude Tests and three Achievement Tests. Every candidate for admission to the freshman class is required to take these tests in her senior year in secondary school.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS. The College Entrance Examination Board will administer the following five series of tests in 1951-1952:

Saturday, December 1, 1951
 Saturday, January 12, 1952
 Saturday, March 15, 1952
 Saturday, May 17, 1952
 Wednesday, August 13, 1952

Scholastic Aptitude (including a verbal and mathematical section)—three hours 8:45 A.M.
 Achievement Tests (not more than three of the following one-hour tests can be taken in any one series) 1:45 P.M.

English Composition	Latin Reading
Social Studies	Spanish Reading
French Reading	Biology
German Reading	Chemistry
Greek Reading (March only)	Intermediate Mathematics
Italian Reading (March only)	Advanced Mathematics
	Physics

Those required for admission to Barnard are:

Scholastic Aptitude Test
 Three Achievement Tests, including
 (1) English Composition

- (2) A choice of French, German, Greek, Italian, Latin, or Spanish
- (3) A choice of Social Studies *or* of: Biology, Chemistry, Physics, Intermediate Mathematics, Advanced Mathematics.

A Bulletin of Information containing brief descriptions of the Scholastic Aptitude Test and the Achievement Tests and rules for the filing of applications and the payment of fees, lists of examination centers, etc., may be *obtained from* and applications *filed with* either the Princeton Office or the Pacific Coast Office of the College Entrance Examination Board.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and all Pacific Islands should mail their completed applications and fees to the Pacific Coast Office of the Board, P. O. Box 2416, Terminal Annex, Los Angeles 54, California:

Candidates who wish to take their examinations in regions not served by the Pacific Coast Office should mail their completed applications and fees to the Princeton Office of the Board, Box 592, Princeton, New Jersey. When ordering the forms, candidates should state whether they wish to take the May, August, December, January, or March tests.

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates in the United States, Canada, Mexico, and the West Indies is *seven weeks* before the date of the examination; for all other candidates the closing date is *three weeks* before the date of the examination. A penalty fee of three dollars to accompany the application will be charged for applications received later than the normal closing date. *No applications received in Princeton or Los Angeles later than one week before the examination date will be considered. Candidates may not register for the tests at the examination centers.* Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone	\$ 6.00
One, two, or three Achievement Tests	8.00
Scholastic Aptitude and one, two, or three Achievement Tests	12.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports of their tests from the Board.

The General Composition Examination of the College Entrance Examination Board forms no part of the requirements of admission to Barnard College. However, candidates are strongly advised to take this test at the end of their junior year or during their senior year, and the results will be considered by the Committee in judging a candidate's fitness to carry on college work.

ADMISSION TO ADVANCED STANDING. Candidates who are admitted to advanced standing in September and February, must have satisfactorily com-

pleted at least one year of work at an acceptable college, scientific school, or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from a college of equal standing will receive at Barnard a year's credit for a year's work at the institution from which she comes.

A candidate for admission with advanced standing from a junior college may be asked to take a College Board examination, and, if admitted, will be allowed to enter courses that succeed her junior college courses. No definite credit for her junior college work can be assigned until after she has had an opportunity to establish a good record at Barnard.

With her application, each candidate should send to the Committee on Admissions a catalogue of her college in which her entrance credit and the courses she has taken are clearly marked. She should also request her college to send an official transcript of her college record. This must be in the hands of the Committee on Admissions before a student's standing in Barnard College can be estimated. As soon as possible after this material has been submitted, each applicant is given a tentative estimate of the time she will be expected to spend at Barnard in order to secure a degree, and the work she will be asked to do. Final determination of these matters lies with the Faculty Committee on Programs and Standing, which reserves the right to readjust credit.

Final action on admission depends upon (1) the honorable dismissal, (2) the certificate of good moral character from an authorized representative of her college, and (3) the certificate of health. All records should be received by the Committee on Admissions by July 1 for admission in September and by December 1 for admission in February; otherwise action may be delayed until just before the opening of College.

If all credentials are not in the hands of the Committee on Admissions by Friday, September 12, 1952, the student's registration may be deferred until Saturday, September 27, 1952, involving an additional fee of \$15 for late registration.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has been a full-time matriculated student for less than two full sessions at Barnard College. It is difficult, however, for a student to secure a degree in one year at Barnard. (See CREDIT, p. 27.)

ADMISSION AS SPECIAL STUDENTS. Women who wish to make a serious study of some subject or group of subjects *without working toward a degree* may, in rare cases, enter Barnard as nonmatriculants. They need not pass formal entrance examinations but must submit character credentials and evidence that they are highly qualified scholastically to take the courses of their choice.

Nonmatriculated students must be mature, and they must not pursue elementary courses. No regular student who has become deficient in her studies may be re-admitted as a nonmatriculated student within ten months of leaving College. No applicant who has been rejected may be accepted as a nonmatriculated student.

Special students are governed by the same attendance, course examination, health, proficiency, and deficiency regulations as regular students. They are entitled to a formal statement testifying to the satisfactory completion of the work that they have taken and may, in view of a good college record, be transferred to a matriculated basis as candidates for a degree by the Committee on Programs and Standing.

REGISTRATION

Before attending any classes at Barnard College, each student must comply with the regulations regarding registration and the payment of fees. Registration is not complete until all fees are paid, including residence hall fees.

NEW STUDENTS. Appointments will be made at the College, in the weeks preceding the opening of the spring or winter session, for freshmen and transfer students to plan their programs and file their registration forms. Members of the Faculty and administrative officers will also be available for consultation on Friday and Monday, September 21 and 24, 1951, and on Thursday, Friday, and Saturday, January 31, February 1 and 2, 1952.

Fees, including fees for room and board for resident students, accompanied by both copies of the bills, must be in the Bursar's Office before the opening day of the term. If mailed to the Bursar, envelopes must be postmarked September 15, 1951, or earlier, or January 15, 1952, or earlier. Payments may be made by check or money order.

Failure to mail remittances on time will entail a late registration fee of \$15.

STUDENTS ALREADY IN COLLEGE. Notice of choice of course must be given to the Registrar on dates to be announced each session. Failure to give notice during this time will result in a \$10 fine. Students in college who defer filing programs until after Commencement will be fined \$20. Fees, including fees for room and board for resident students, accompanied by both copies of the bills, must be mailed to the Bursar's Office and postmarked September 15 or earlier for the winter session and January 15 or earlier for the spring session. Payments may be made by check or money order.

University directory cards and Student Information Forms, which are sent to each student during the summer, must be mailed to the Registrar's Office not later than September 15th.

Failure to mail remittances, directory cards, or Student Information Forms on time will entail a late registration fee of \$15.

WITHDRAWAL. Any student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the Registrar's Office. Students under twenty-one years of age must furnish the Dean with the written assent of a parent or guardian. (See REFUNDS, page 24.)

FEES

GENERAL STATEMENT

All fees are payable semiannually in advance (see instructions under REGISTRATION), and no reduction is made for late registration. Registration is not complete until *all* fees are paid, including residence halls fees. Failure to pay fees on time (see REGISTRATION) imposes automatically the statutory charge of \$15 for late registration.

In special cases, for satisfactory reasons and upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the session until approximately mid-term—November 15 or March 15—provided that permission is granted before August 15 or December 15. *Any application for the privilege of deferred payment made after August 15 or December 15 will be considered late payment and as such will be subject to a \$5 late payment fee.* In every case where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional \$5 late payment fee will be incurred. In case of withdrawal the entire bill for tuition and residence will become due immediately.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks in payment of all fees, including those for charges in the residence halls, should read "Pay to the order of Barnard College," and should be made out for the exact amount of the payment due. As change will not be given on checks, no check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College incurred by the student must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

The privileges of the College are not available to any student who is delinquent in the payment of her fees.

(The application fee of \$10, payable when application for admission is filed, is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session.)

For *all* students for *each* session:

A. Registration fee \$ 10.00

B. Tuition

1. For matriculated students enrolled:

a. For 10 points or more 390.00
b. For 9 points or less, \$36 per point for academic work
and \$5 for physical education, if this is required.

2. For nonmatriculated students: \$36 per point for academic work and \$5 for physical education, if this is required, with a maximum fee of \$390.00.

F E E S

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3. For all students: Medical Fee \$ 2.50

In addition, a Student Activities Fee is charged all matriculated students 5.00

\$407.50

Additional fees for *all* resident students for *each* session:

(A room deposit of \$50 is payable by May 15 to the residence halls to secure the assignment of a room. This deposit will be applied \$25 to the rent bill of the winter session and \$25 to the rent bill of the spring session. The entire deposit is forfeited in case of withdrawal.)

A. Room \$185.00

B. Board 200.00

\$385.00

SUMMARY OF FEES FOR THE ACADEMIC YEAR

For a non-resident full-time student (taking 10 points or more)

Registration, Tuition, Medical, and Student Activities Fees . . . \$815.00

Payable as follows:

May 15 \$ 50.00

September 15 357.50

December 1 50.00

January 15 357.50

\$815.00

In order to obtain a place on the college list for the ensuing winter or spring session, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College.

The deposit of \$50 will be applied to the tuition bill of the winter or spring session, as the case may be. *The entire deposit is forfeited in case of a student's failure to enter or of her withdrawal.*

For a resident full-time student (taking 10 points or more)

Registration, Tuition, Medical, and Student Activities Fees . . . \$ 815.00

Room 370.00

Board 400.00

\$1,585.00

Payable as follows:

May 15	\$ 100.00
September 15	717.50
December 1	50.00
January 15	717.50
	<hr/>
	\$1,585.00

REFUNDS. As contracts with instructors and provisions for education and residence are made by the College for the entire year in advance, no refunds of registration, tuition, or rent can be made after these fees become due, except in cases of extreme hardship, of which the College shall be the sole judge. Refunds for board are computed on a pro rata basis covering the period of six weeks from the date of withdrawal to the end of the session.

ADDITIONAL CHARGES

Tuition for courses in applied music:

For special fee in each case, see departmental announcement of course.

Tuition for technical courses in fine arts if not taken for credit and not in conjunction with theoretical work in fine arts:

For special fee in each case, see announcement of the School of General Studies.

Tuition for professional courses that are *not* taken for credit and for General Studies classes that, with the permission of the Committee on Programs and Standing, are taken for credit toward the Barnard degree. This varies with the course taken.

Late Registration (see page 21) \$15.00

Privilege of filing program late 10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose by the Committee on Programs and Standing. Students in college who defer filing programs until after Commencement are fined \$20.

Late change of program 5.00

Any change in program initiated by any student and made after the period announced for that purpose by the Committee on Instruction.

Examinations, payable in each case before the examination is held:

For each and every deficiency examination 5.00

For each and every special examination \$10.00
 (A special or deficiency examination is one taken at any time
 other than at the conclusion of a course actually attended.)

For late application 5.00

For the degree 20.00

This fee is never refunded. It must be paid on or before April
 15 by candidates for the degree in June or October and by January
 1 by candidates for the degree in February.

Deposits for the use of apparatus, material, and the like are required in:

Chemistry 23, 24, 26, each course 10.00

Chemistry 41b, 42b, each course 12.50

Chemistry 63, 64, 107, 108, 137, 138, each course 15.00

Miscellaneous Expenses Not Payable to the College

Gymnasium costume (approximate) 15.00

Textbooks and supplies per year (minimum) 20.00

Student Government dues (for resident students) 2.00

Estimated Cost for the First Year	Day Students	Resident Students
Registration, tuition, etc.	\$815.00	\$ 815.00
Board and Room		770.00
Textbooks (minimum)	20.00	20.00
Gymnasium costume	15.00	15.00
Lunches, transportation, etc. (minimum)	75.00	
Student Government dues		2.00
	<hr/> \$925.00	<hr/> \$1,622.00

This estimate does not include individual allowances for clothes, travel, amuse-
 ments, supplies, etc.

For information regarding various scholarships, ranging from \$75 to \$950,
 which are available to students in need of assistance, see page 47.

STUDENT HOSPITAL INSURANCE. Barnard students may join the
 Associated Hospital-United Medical Service plan for surgical and medical ex-
 pense indemnity. Membership in this plan costs \$23.52 for twelve consecutive
 months beginning October 1, 1951. It entitles members to hospitalization and to
 the services of a surgeon and other medical facilities during hospitalization.

A student who is interested in joining this plan should secure an enrollment
 card from the Bursar, execute it, and return it before September 15, 1951, with
 a check made payable to Barnard College. Contracts will be sent to members
 by the Associated Hospital Service after October first.

FEES OF STATE SCHOLARS. Each State Scholar should file at the office of the Bursar *at the time of registration* the notice which she has received from Albany stating that a State Scholarship has been awarded to her. On the basis of this official notice she is entitled to a credit of \$175 a session.

A State Scholarship Certificate for each of these students is then sent from Albany to the Bursar, who records all necessary information and forwards the certificate to its owner. This certificate need not be presented again at the Bursar's office.

SAFEKEEPING OF STUDENTS' FUNDS. The Bursar of Columbia University at Room 310 in University Hall is prepared to receive the funds of Barnard College students for safe-keeping, subject to printed regulations obtainable in the Bursar's Office.

Personal checks are not cashed by the University, nor is credit allowed, until money has actually been received from the bank on which the check is drawn. Students should provide themselves with traveler's checks to cover their immediate expenses.

GENERAL REGULATIONS

ACADEMIC DISCIPLINE. The continuance of each student upon the rolls of the University, the receipt by her of academic credits, her graduation, and the conferring of any degree are strictly subject to the disciplinary powers of the University, which is free to cancel her registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve powers of the President, in the Dean of each Faculty and the Director of the work of each administrative board.

All students must register with the Placement Office. Any student who fails to do so by the middle of her senior year will not receive her degree until such registration has been completed.

ASSEMBLIES. College assemblies and academic meetings at which attendance is required are held on Tuesday at 1:10 o'clock. Assemblies, planned by a joint committee of the Faculty and Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important College matters. Students *must* keep this hour free from other engagements.

CLASS ADVISERS. Four members of the Barnard Faculty serve as Class Advisers, giving guidance and counsel to individuals in the classes for which they are responsible throughout the four-year period. All students should consult their Advisers before making a final choice of courses. Class Advisers for the year 1951-52 are:

Miss Marianna Byram, Adviser to the Class of 1955

Professor Helen Bailey, Adviser to the Class of 1954
Professor Clara Eliot, Adviser to the Class of 1953
Professor Gertrude V. Rich, Adviser to the Class of 1952.

The Dean and the Associate Dean of Student Administration are always glad to confer with a student regarding any matters which may be of interest to her, and individual instructors may also be consulted at any time.

ELECTION OF COURSES. In addition to consulting her Class Adviser, each junior and senior must have her program approved by the Major Adviser in order to coordinate the selection of courses in related departments.

No courses other than those specified in the announcement may be taken without the consent of the Committee on Programs and Standing.

No combination of courses amounting to less than 12 or more than 16 points may be taken in any session without the consent of the Class Adviser. No more than four hours of class work, or its equivalent in laboratory work (or seven hours of class and laboratory work combined) may be taken on the same day. A maximum of five courses may be elected in any one semester.

COLUMBIA GRADUATE COURSES OPEN TO BARNARD STUDENTS. Qualified seniors may, with the consent of the Executive Officer of the department concerned and the Class Adviser, take certain graduate courses at Teachers College and at Columbia University, under the Columbia Faculties of Political Science, Philosophy, and Pure Science. A senior of unusual ability may request permission to elect two graduate courses in her major field to be counted toward the Bachelor's degree.

An undergraduate of high standing may register for graduate courses in partial fulfillment of the requirements for a higher degree under the following conditions:

- (1) the student must secure the approval of the appropriate dean;
- (2) the student must be in the last term of her senior year;
- (3) the student must be within 12 points of her Bachelor's degree;
- (4) the points to be used for graduate credit must be over and above the requirements for the Bachelor's degree.

For full information concerning the content of graduate courses at Columbia, see the appropriate announcements of the various Faculties.

CREDIT. Of the 120 points required for the degree, at least 30 must be taken while the student is registered in Barnard, and at least 15 must be taken during the senior year. At least 12 points in the major field must be taken at Barnard.

Certain courses in the School of General Studies of Columbia may be credited toward the degree provided that: courses are approved by the Committee on Programs and Standing and the Director of the School of General Studies; and a grade of C or better is obtained in each course. Fees for courses taken at the

School of General Studies are not included in the regular tuition; they will be added to the Barnard College bill.

No credit is given for a one-hour course unless it is taken in connection with another course which it supplements. No credit is allowed for a course elected on an optional or audit basis even though all work is completed, *unless the student within the first three weeks of the term, changes her registration to a credit basis, and files a change of program in the Registrar's Office.*

SUMMER WORK CREDIT. The Committee on Programs and Standing must approve the election of summer session courses if they are to be counted toward the degree. Unless the Committee gives special permission, any student whose average standing during the preceding academic year was below 2.50 will be restricted to 6 points of work for a six-weeks' session, or a proportionate number of points for a longer session. Students whose average has fallen below 2.00 for the academic year may not be allowed to attend summer session.

To receive credit toward the Barnard degree the student must pass each course with a grade of C or better. Additional credit for high standing is not given for summer work. *Reports of summer work must be submitted within one month of the student's return to Barnard; otherwise no credit will be allowed.*

TIME LIMIT FOR WORKING TOWARD A DEGREE. All requirements for a degree must be fulfilled by the candidate within six years from the time of her matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from matriculation as a sophomore; within three years from matriculation as a junior; and within one and a half years from matriculation as a senior. If the requirements are not fulfilled within the time specified, credit for all points gained toward the degree is forfeited unless the Faculty directs otherwise.

SPECIFIC DEGREE REQUIREMENTS.

English A	6 points
Modern Living	2 points

A course designed to increase the student's knowledge of herself and of the problems she will meet in college and in the world.

Physical Education, A, B, C, D (8 credits required for graduation)

Ability to read a foreign language at sight with ease. The student may meet this requirement by passing an examination in the language of her choice or by passing with a grade of not less than C an advanced course in the literature of that language taken at Barnard. The courses which will satisfy this requirement are:

French 7, 8; 13, 14; 21-22; 23, 24; 25, 26; 27, 28; 35, 36
 German 25, 26; 27, 28; 36; 45, 46
 Italian 15, 16; 17, 18; 21, 22
 Latin 11, 12
 Spanish 15-16

One full-year course in a second foreign language if the student has not had the equivalent (two years) in high school.

Two full-year courses in the humanities (literature, fine arts, music, philosophy, religion), one of which must be a course in literature to be studied in the language in which it was originally written. The passing of an advanced course in the literature of a foreign language at Barnard in fulfillment of the foreign language requirement may also be counted towards the requirement of one course in the humanities 12 points

One full-year course in modern European or American history (History 1-2, 3-4, or 9-10), except when the Committee on Programs and Standing gives permission for the substitution of another course in history..... 6 points

One full-year course devoted to the study of contemporary society 6 points

The following courses will satisfy this requirement:

Anthropology 17	Psychology 37
Economics 1-2	Religion 25
Geography 1-2; 15, 16	Sociology 1-2
Government 3, 4; 5, 6	

(The following distribution should be observed: If a course in economics, or government, or sociology, or Geography 1-2 is elected, both terms must be taken. Any combination amounting to at least 6 points may be made of the other courses.)

Two full-year courses in science, one in the physical sciences, one in the biological sciences 14 or 16 points

The first course must be a laboratory course in physics, chemistry, geology, botany, psychology, or zoölogy.

If the laboratory course has been taken in the field of the physical sciences (chemistry, physics, or geology), the second year of science must be elected from mathematics, a survey of the biological sciences, experimental psychology, or botany or zoölogy, with or without laboratory, as the student chooses. If, on the other hand, the laboratory course has been taken in the field of the biological sciences (botany, psychology, or zoölogy), the second year must be taken in mathematics, a survey of the physical sciences, or elementary chemistry, physics, or geology, with or without laboratory, as the student chooses.

A *major* consisting of not less than 28 points
of work in one subject and the passing of a major examination.

Electives 46 or 44 points

Required for the degree: 8 credits in Physical Education and 120 points

FOREIGN LANGUAGE EXAMINATIONS. The foreign language examinations are held in January, May, and September. Each student electing to take an examination in the language of her choice must pass it before the beginning of her senior year. If the requirement is not satisfied by that time, the student is placed on probation, with a limited program, until such time as the requirement is met. After a student has satisfied all other degree requirements, she is permitted four additional trials of the test within the six-year period. (See p. 28.)

THE MAJOR. To insure some degree of concentration in a chosen field during the last two years of her course, each student is required to select a major subject at the end of her sophomore year. She then becomes subject to the regulations of her chosen department or interdepartmental committee. The student is given considerable freedom in selecting her courses, but she must take at least 28 points in her major subject and meet certain other specific requirements. Before graduation the student must pass a major examination designed to test her maturity in her major subject.

Barnard students may major in:

Anthropology	History
Botany	International Relations
Chemistry	Italian
Economics	Latin
English	Mathematics
Fine Arts	Music
Foreign Areas Studies	Natural Resources
French	Philosophy
Geology	Physics
Geography	Psychology
German	Religion
Government	Sociology
Greek	Spanish
	Zoölogy

and such combinations as:

Economics and Government, Economics and Sociology, Government and History, Government and Sociology, Greek and Latin, History and Philosophy, or a combination of two languages.

A major in economics, English, government, history, philosophy, or sociology may specialize in the field of American Civilization.

REQUIREMENTS FOR TRANSFER STUDENTS. Students transferring to Barnard from other colleges are subject to the regulations outlined above. The specific English requirement, however, may be fulfilled by passing a proficiency test. Thirty of the points counted toward the degree *must* be taken at Barnard, as well as a minimum of twelve points in the major subject.

The Class Adviser will determine, in conference with the student, the program of work the student will take. Experience, maturity, intellectual interests, professional plans, and previous academic record are taken into consideration.

Qualified students who meet the standards required by the University Committee on Admissions may, after the completion of the required preliminary work at Barnard, transfer to the professional schools at Columbia.

ADDITIONAL CREDIT FOR HIGH STANDING. At the end of the winter and the spring sessions, additional credit for high standing is given as follows:

A semester average of 3.50 through 3.69 entitles the student to 1 point of extra credit, provided she has carried a program of at least 12 points, has

satisfactorily completed all the work of the session, and has not received a report of *absent*, *incomplete*, or *deferred* in any course.

A semester average of 3.70 and above entitles the student to 2 points of extra credit provided the conditions set forth above have been met.

CLASSIFICATION OF STUDENTS. Matriculated students are classified as follows:

Freshmen: those who have completed less than 24 points of academic work;
Sophomores: those who have completed 24 points;
Juniors: those who have completed 54 points;
Seniors: those who have completed 86 points.

Unclassified students: those who have not yet been assigned definite credit on transfer;
senior transfers who have not fulfilled the foreign language requirement;
students who are electing less than 10 points a session.

No matriculated student may change her status to that of a nonmatriculated student.

CHANGE OF PROGRAM. No change of any kind, including changes of sections, may be made in a student's program without the written consent of the Class Adviser and the major department. No change in the point value of a course may be made without the authorization of the Committee on Programs and Standing. Changes will not be allowed for old students after the second Wednesday following the opening of the session except on the initiative of the department or the Class Adviser. New students are allowed an additional three days in which to make changes.

All changes initiated by students except for those made in the period between Commencement and August 15 entail a fee of \$5, unless made necessary by exceptional circumstances.

ABSENCES. All students are expected to attend regularly the courses for which they are registered. Any undue amount of absence or tardiness may result in a lowering of grades. Students are expected to reserve their absences for illness and other urgent matters.

The attendance of freshmen is under the supervision of the Committee on Programs and Standing, which considers each instance of undue absence at the end of each semester. Undue absence is defined as absences exceeding the number of class hours in a week, as follows: more than one absence from a class meeting one hour a week, more than two absences from a class meeting two hours a week, and so on. Two tardinesses equal one absence. Illness will be considered as a possible excuse for excess absence only if the student files a statement in the College Physician's office immediately after she returns to College. Exceptions may be made for students who are prevented from attending college on days set

apart for religious observance if they make application to the appropriate college authority.

All students are expected to report their absences on forms available for the purpose in the office of the College Physician, with the understanding that stating the reasons for the absences is optional except in the case of illness when the nature of the illness must be recorded.

EXAMINATIONS. Two series of examinations are held every year, one in January and one in May. These are the only stated examinations. For the year 1951-52, the mid-year examinations begin on Tuesday, January 22, and final examinations begin on Tuesday, May 20.

Deficiency examinations are open **ONLY** to those students whose work during the term has been satisfactory, and who have been *unavoidably* absent from stated examinations.

They are held in September only, prior to the opening of College. They must be taken in the September immediately following the stated examination period, OR in the second September thereafter. Otherwise, credit for the course is forfeited. Application to take a deficiency examination must be made in writing, and *the fee of \$5 for each examination must be paid in advance.*

The residence halls are open for the deficiency examination period. There is no meal service, and prior to Sunday, September 23, there is a room charge of \$1.25 per day.

Students in the last semester of their senior year, who are absent from a final examination for imperative reasons, may request a special examination. *For each special examination there is a fee of \$10, payable in advance.*

GRADES AND CREDIT RATING. Performance in a course is rated as follows: A and A—, excellent; B+, B, and B—, good; C+, C, and C—, fair; D, poor; P, passed without specific grade; F, failure. The mark *incomplete* is given only when the student has obtained permission from the instructor in advance to postpone the submission of work which must be completed before a grade can be reported. Work that is not completed within three weeks after the end of the session is automatically graded F.

Standing in College is determined by a valuation of each academic point according to the mark received. Each point with an A mark counts 4; B, 3; C, 2; D, 1; F, 0. An adjustment of + 0.3 or — 0.3 is made for each recorded plus or minus. The average mark per point is the student's rating.

No more than 6 points of D work may be credited in any one year. If more than four years is necessary to acquire the degree, no more than 24 points of D work may be counted in the total credits. No work of D grade may be counted in the major of 28 points, and no D work done in the summer may be credited.

Records of all students are examined at the end of the sophomore year, and only those students who have attained a 2.00 rating or better at Barnard, or who have shown promise of future development, will be permitted to remain in College for the junior and senior years.

To be recommended for the degree, each student must attain an average of 2.00 (C) or above for the entire course, and for the senior year. If this requirement is not fulfilled, the Committee on Instruction determines whether the student may continue to work toward a degree at Barnard.

DEAN'S LIST. A Dean's List, compiled by the Faculty Committee on Honors at the end of each academic year, consists of the names of students who deserve special mention for scholarly excellence during the year. This list is announced at the opening of the following academic year.

DEGREES. When the student has completed her course of study satisfactorily, she is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, February, and October.

Degrees with honors are awarded to students who complete the work for the degree with the highest distinction (*summa cum laude*), with high distinction (*magna cum laude*), and with distinction (*cum laude*).

Professional Schools of Columbia University
Open to Barnard Students or Graduates

PROFESSIONAL SCHOOLS OF COLUMBIA UNIVERSITY OPEN TO BARNARD STUDENTS OR GRADUATES

The requirements for admission to the professional schools of the University vary: in some instances a Bachelor's degree is necessary; in others a student is eligible after three years, two years, or one year of successful college study. Since only a limited number of students can be accommodated, the most promising applicants are selected by the office of University Admissions.

Barnard College keeps in close touch with these schools and endeavors to give its students the best possible advice concerning preparation for them.

Barnard students preparing for admission to these professional schools must take at Barnard the courses normally required of all degree candidates. They should also elect the subjects required by the special school they hope to enter.

Full information regarding each school may be obtained from its own special announcement, which will be sent on request by the Secretary of Columbia University.

THE PROFESSIONAL OPTION

An exceptionally good student may shorten her course by means of the so-called "professional option"—a plan under which permission is given to count the first year in a professional school in place of the senior year at Barnard. To be eligible for this privilege, a student must complete at Barnard before transferring to the professional school 90 points of academic work, including all specific requirements, and a major of 28 points, unless this number is reduced in individual cases by special permission of the Committee on Instruction.

Students transferring to Barnard from other institutions will be granted the privilege of professional option only if they have an unusually good record, and in no case will permission be given until after the student has completed at least one full year of work in Barnard College.

The professional option may be exercised in connection with the Schools of Architecture, Dental and Oral Surgery, Engineering, Law, Medicine, and Painting and Sculpture.

ARCHITECTURE

The School of Architecture offers a course of study leading to the degree of Bachelor of Architecture. Under normal conditions, the professional degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year in English, in a foreign language (preferably French or German), in mathematics, and in economics, or history, or government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

BUSINESS

The Graduate School of Business offers a one-year course of study leading to the degree of Master of Science for college graduates who have majored in

business, a two-year course of study leading to the degree of Master of Business Administration for college graduates without previous preparation in business, and advanced studies leading to the degree of Doctor of Philosophy.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 12 points in chemistry, including organic chemistry, and a minimum of 6 points each in English composition and literature, physics, and zoölogy. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

DRAMATIC ARTS

The School of Dramatic Arts offers a course of study leading to the degree of Bachelor of Fine Arts (in Dramatic Arts). Under normal conditions, the professional degree may be obtained in three years.

The work at Barnard should include, among other courses, full-year courses in English, a foreign language (preferably French or German), mathematics or a laboratory science, and courses in economics, or history, or government, or sociology. For students not candidates for the Barnard degree, at least two years (60 points) of college work is required for admission to the School of Dramatic Arts.

PAINTING AND SCULPTURE

The School of Painting and Sculpture offers a course of study leading to the degree of Bachelor of Fine Arts (in Painting or in Sculpture). Under normal conditions, the professional degree may be obtained in three years.

The work at Barnard should include, among other courses, full-year courses in English, a foreign language (preferably French or German), mathematics or a laboratory science, history of art, and drawing. For students not candidates for the Barnard degree, at least two years (60 points) of college work is required for admission to the School of Painting and Sculpture.

ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, and mineral engineering. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads to the Degree of Bachelor of Science only.

Students who are interested in the engineering program should offer at entrance to Barnard additional credits in mathematics (through trigonometry), one in chemistry, and if possible, one in physics. For details of this program the student should consult the Dean of the School of Engineering.

Additional information about the engineering program and the advanced degrees offered by the School may be obtained from the *Announcement of the School of Engineering*.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade and should include satisfactory courses in English, economics, and English and United States history or the equivalent of such training. The minimum requirement of admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take a capacity test. This test will be given in many locations throughout the United States several times during the year. For further information about the test write to the Educational Testing Service, Post Office Box 592, Princeton, New Jersey.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade, must include the requirements prescribed by the New York Board of Regents of approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

INTERNATIONAL AFFAIRS

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. The emphasis during the first year is upon the development of an adequate knowledge and understanding of the field generally; emphasis in the second year is upon the development of one of the following functional specialties: business affairs, economic affairs, government affairs, international administration, and legal affairs. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a Bachelor's degree from an approved institution, (b) a distinctly superior undergraduate record, and (c) a better than average performance on the Graduate Record Examination. In addition to these basic requirements, the student must satisfy special requirements of the functional field in which she plans to specialize. Further information may be obtained from the Office of University Admissions.

THE RUSSIAN INSTITUTE

The Russian Institute of Columbia University was established in 1946 with the assistance of the Rockefeller Foundation. The two-year graduate program leading to a certificate is designed for students who wish to prepare themselves for scholarly or professional careers in the Russian field with a special emphasis in some one scholarly discipline as applied in that field.

Within the Institute, the candidate will be expected to follow a broad program of survey courses on Russia, and to give major emphasis to one of five Russian fields: history, economy, government and law, international relations, or the social and ideological aspects of literature. Outside the Institute, she will work simultaneously for an advanced degree in the graduate department or school that is most closely allied with the specialty she elects within the Institute.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics, and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library

work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

NURSING

Columbia University offers a three-year course at the College of Physicians and Surgeons and the Presbyterian Hospital leading to the degree of Bachelor of Science and a diploma in nursing. The preparatory work at Barnard should comprise work in chemistry, biology, psychology, and sociology. The acceptance of a candidate is based on grounds of character and health as well as on the fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work, but students who hold the Bachelor's degree may obtain permission to complete the course in two years and four months.

SOCIAL WORK

The New York School of Social Work, a division of Columbia University, offers a two-year course of study leading to the degree of Master of Science. The curriculum is planned to provide suitable levels of instruction in classroom, practice, and research for students who are beginning their preparation for the field, as well as for workers already employed in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 semester hours in strictly liberal arts studies and not less than twenty semester hours in the social and biological sciences, with the emphasis in the direction of the social sciences.

The School has a limited enrollment and admission is on a selective basis. Details about the curriculum and dates for filing applications are in the Bulletin of the School which may be obtained upon request.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Arts in the fields of Christian Education, of Biblical Literature, and of Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission to the courses of study at the Seminary is a Bachelor's degree including special work as indicated below for each degree:

a. *Bachelor of Divinity*. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.

b. *Master of Arts* in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include (1)

in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. *Master of Sacred Music*. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

COURSES IN DENTAL HYGIENE

A course for Dental Hygienists is offered at the School of Dental and Oral Surgery. The course is two academic years in length leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following subject requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than eight of the sixty credits required for admission will be considered for matriculation on condition that the eight credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study leading to a Bachelor of Science degree in Occupational Therapy. Students who have satisfactorily completed at least two years of acceptable work in a college approved by Columbia University may register for the regular course to be completed in two years (25 calendar months). The two years in liberal arts required for admission on this basis, 60 semester credits, should include a year of college science, and at least one semester in general psychology and one semester in sociology. Electives may be chosen from such subjects as languages, science, the humanities, and the social and political sciences. In addition, candidates for admission must possess personal qualifications and aptitude suited to the practice of occupational therapy. Whenever possible, aptitude will be judged in part by a personal interview.

A graduate program of 17 months is offered for students already possessing an A.B. or B.S. degree. The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

OPTOMETRY

A special committee of the University Council administers a course of study of professional subjects in optometry. The course leading to the degree of Master of Science requires at least two years of academic work and three years of professional studies.

The requirement for admission to the professional part of the course is the satisfactory completion of 64 points (excluding physical education) in an acceptable liberal arts college, distributed as follows. *Group I. Required:* one year each of the following—English, history or other social science subject, physics, zoölogy or physiology, and psychology; two years of mathematics through differential and integral calculus. *Group II. Recommended:* two years of a foreign language (German, French, or Spanish), an additional year of English and history.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of training in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a total of 16 semester hours of credit in psychology, physical science, and biological science.

The course of professional study is a 21-month program including two academic years of didactic instruction and clinical practice plus one summer of clinical practice.

PUBLIC HEALTH

The Faculty of Medicine offers a program of professional study at the School of Public Health leading to the Master of Science degree in Health Education, Hospital Administration, Industrial Hygiene, Biostatistics, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. Field work is required of those specializing in public health education or hospital administration.

CERTIFICATE OF PROFICIENCY IN SECRETARIAL STUDIES

Candidates for degrees in Columbia University and those who hold degrees from an accredited college or university may complete basic training in stenography, typewriting, and secretarial skills and, upon examination, obtain a Certificate of Proficiency in Secretarial Studies. Such a certificate and the training it represents will be found of value in connection with advanced study, research, and in gaining entrance upon a career in business, government, and the professions. For a descriptive pamphlet apply to the Director of University Admissions.

STATISTICS

	1889 to 1890	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1940 to 1941	1941 to 1942	1942 to 1943	1943 to 1944	1944 to 1945	1945 to 1946	1946 to 1947	1947 to 1948	1948 to 1949	1949 to 1950	1950 to 1951
UNDERGRADUATES, REGULAR:																					
Seniors	40	40	83	62	*123	87	*126	227	*181	*164	172	180	*169	*173	*208	208	*257	*300	*273	*260	213
Juniors	40	40	71	122	110	190	259	237	220	191	206	185	242	271	314	360	359	296	354	277	320
Sophomores	37	37	75	109	191	193	234	247	226	210	212	219	254	248	314	360	310	307	266	272	287
Freshmen (regular)	4	54	110	188	240	224	271	311	267	246	248	257	291	350	324	311	301	265	244	271	215
Freshmen (partly regular)	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unclassified students . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SPECIAL STUDENTS:																					
Matriculated	14	171	339	481	664	694	947	1076	997	954	967	979	1013	1131	1216	1279	1267	1199	1143	1097	1058
Nonmatriculated . . . . .	..	21	27	24	32	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Departmental (1889-1896)	22	..	..	30	32	22	33	28	29	31	27	30	27	23	21	27	19	21	15	15	8
Music students (1896-1904, 1914-1915) . . . . .	..	41	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
GRADUATE STUDENTS (1890-1900)	22	62	27	54	69	61	33	28	29	31	27	30	27	23	21	27	19	21	15	15	8
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD . . . . .	..	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
STUDENTS FROM COLUMBIA UNIVERSITY	36	315	366	535	733	755	980	1104	1026	985	994	1009	1040	1154	1237	1306	1286	1220	1158	1112	1066
STUDENTS FROM TEACHERS COLLEGE . . . . .	..	18	77	200	*108	38	50	62	21	20	88	66	60	37	77	83	106	109	123	94	94
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY . . . . .	..	18	139	259	136	80	153	234	163	92	25	11	8	1	12	15	12	18	4	4	2
TOTAL REGISTRATION	36	333	505	794	869	873	1183	1400	1210	1097	1107	1086	1108	1192	1326	1404	1404	1347	1285	1210	1162
DEGREES CONFERRED:																					
A.B. . . . .	..	39	83	88	141	139	198	247	221	206	209	221	201	216	270	276	287	338	302	303	..
B.S. (1909-1918) . . . . .	..	18	..	2	8	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
A.M. (1898-1900) . . . . .	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ph.D. (1895-1900) . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TOTAL BACHELOR'S DEGREES CONFERRED 1893-1948: A.B., 8673; B.S., 77.

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1944-45	1 in Law
1914-15	3 in Education	1946-47	1 in Medicine
1916-17	1 in Journalism	1947-48	2 in Medicine, 1 in Law
1921-22	1 in Journalism	1948-49	1 in Medicine
1922-23	1 in Journalism	1949-50	1 in Medicine
1923-24	2 in Journalism, 1 in Medicine		

FINANCIAL AID
SCHOLARSHIPS,
FELLOWSHIPS AND
PRIZES

FINANCIAL AID

INTRODUCTION

The College desires that no student of exceptional ability be kept away from Barnard because her family has only moderate means. For this reason, scholarships, grants-in-aid, loan funds, and provisions for employment through the Placement Office are maintained.

LOAN FUNDS

STUDENTS' LOAN FUND. The Associate Alumnae of Barnard College maintains a Students' Loan Fund, from which loans are made at a low rate of interest to upperclassmen in need of financial aid for tuition and residence fees. No loan is granted to enable a girl to enter Barnard. The size of the loan to any individual, the rate of repayment, and the rate of interest shall be determined by the Students' Loan Committee. Inquiries should be addressed to the Alumnae Secretary in the Associate Alumnae Office, Barnard Hall.

THE SWOPE LOAN FUND. The income of a fund of \$25,000. Established in 1950 by Mr. and Mrs. Gerard Swope and Miss Henrietta Swope. Loans from this fund are to be administered by the Scholarship Committee of the College and are to be used to assist in the education of young women attending Barnard College. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

The size of the loan to any individual, and the rate of interest, shall be determined by the Scholarship Committee. In the awarding of loans, the recipient should understand that she is expected to repay to the income account of the Loan Fund the amount so loaned to her, with interest, if she is able to do so.

SCHOLARSHIPS AND GRANTS-IN-AID

SCHOLARSHIPS are awarded annually by the Committee on Scholarships to full-time students of high scholarly ability, excellent character, and promise of future usefulness who are in need of aid. Scholarships for resident students (those who live in Brooks or Hewitt Hall) range in value from \$100 to \$950 a year. Scholarships for students not living at the College range from \$50 to \$400. If a student comes under college censure for failing to maintain a satisfactory average in her work, or for any other reason, she may be obliged to forfeit her scholarship.

GRANTS-IN-AID are awarded by the Faculty Committee on Scholarships to deserving students who need financial aid to enter or remain in college. Eli-

gibility for these grants normally includes an academic record averaging C or above.

RESIDENCE GRANTS, ranging in value from \$25 to \$400, are awarded by the Faculty Committee on Scholarships to enable students to live in the residence halls.

APPLICATIONS. *Entering students* must file applications for scholarships on blanks obtained from the Office of Admissions. All applications must be in the hands of the Committee on Admissions on or before the first of March.

Unless applicants are applying for admission with advanced standing from another institution, they are required to take the Scholastic Aptitude and Achievement Tests of the College Entrance Examination Board in March of their senior year in secondary school.

Except in the case of a few special scholarships, students should not indicate that they are applying for a specific scholarship, but should merely give the minimum sum needed.

Students in College must file all applications for scholarships, grants-in-aid, and residence grants on special blanks obtainable in the Associate Dean's Office. Applications must be filed on or before the first of March.

AWARDS. Applicants for scholarships will be notified as soon as awards are made. Award recipients are requested to inform the Associate Dean's Office *immediately*, in writing, if they do not intend to use the funds awarded

GENERAL SCHOLARSHIPS

ANNA E. BARNARD SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.

WILLINA BARRICK MEMORIAL SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, 1900. It is awarded on the nomination of the Club to a graduate of a Jersey City secondary school entering Barnard College.

IRVING BERLIN SCHOLARSHIP. The income of a fund of \$12,500. Founded in 1950 by Irving Berlin. It is awarded annually to one or more girls of foreign-born parentage.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP. The income of a fund of \$5,000, founded in 1950, in honor of Ruth Marshall Billikopf, Class of 1919. The income will be awarded to needy and deserving students, with emphasis on character as well as academic success.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1913 with a bequest from the late Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

BREARLEY SCHOOL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by pupils and former pupils of the Brearley School.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1915 by her friends in memory of Martha Ornstein Brenner, 1899.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, of the Class of 1915. It is awarded during her senior year to an able and deserving student specializing in French.

BROOKLYN SCHOLARSHIPS (\$150 EACH). Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students resident in Brooklyn and prepared in a Brooklyn school.

CARPENTIER RESIDENCE SCHOLARSHIPS (\$400 TO \$900 EACH). Founded in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

JENNIE B. CLARKSON SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1898 by the late Mrs. W. R. Clarkson.

MRS. HENRY CLARKE COE SCHOLARSHIP. The income of a fund of \$3,600. Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

SCHOLARSHIP IN ENGLISH. The income of a fund of \$5,000. Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who stands out as particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.

MARTHA T. FISKE SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs.

HELEN JENKINS GEER SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. It is awarded annually, after conference with the donor.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP. The income of a fund of \$15,100. Founded in 1937 by Mr. Charles R. Crane in honor of the international work of Dean Emeritus Gildersleeve. It is awarded annually to a foreign student coming to Barnard to study.

GRAHAM SCHOOL SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1907 by the Graham Alumnae Association.

HARKNESS SCHOLARSHIPS. Established in 1939 by a gift of \$100,000 from the late Edward S. Harkness. Awarded to able and needy students.

EMMA HERTZOG SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1904 by gifts from residents of Yonkers, N.Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school who is entering Barnard College.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1928 with a bequest from the late Fannie A. Jackson in memory of her sister. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

MARY E. LARKIN JOLINE SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.

JESSIE KAUFMANN SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

ELEANORA KINNICUTT SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1951 and 1954.

AUGUSTA LARNED SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1924 with a bequest from the late Augusta Larned.

MRS. DONALD MCLEAN SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1906 by the New York City Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

WILLIAM MOIR SCHOLARSHIPS. The income of a fund of \$10,000. Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

MARY BARSTOW POPE SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate of Barnard College for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

LUCILLE PULITZER SCHOLARSHIPS (\$300 TO \$900 EACH). Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. Three are restricted to students from the City of New York; eight are for resident students.

LUCILLE PULITZER SUPPLEMENTARY SCHOLARSHIPS (\$50 EACH). Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or, in special cases, general outside expenses.

PETER C. RITCHIE, JR., SCHOLARSHIP. The income of a fund of \$4,400. Founded in 1937 with a bequest from the late Virginia J. Ritchie. It is awarded to a needy student.

ELEANOR BUTLER SANDERS SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Henry M. Sanders.

ANNA M. SANDHAM SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Anna M. Sandham.

SCHMITT-KANEFENT SCHOLARSHIP. The income of a fund of \$7,000. Founded in 1931 with a bequest from the late Catherine Schmitt.

EMILY JAMES SMITH SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College from 1894 to 1900.

EMMA A. TILLOTSON SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1951 and 1954.

VELTIN SCHOOL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1905 by the alumnae of Mlle. Veltin's School.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh of the Class of 1925. In awarding this scholarship, preference is given to a self-supporting student.

ELLA WEED SCHOLARSHIP. The income of a fund of approximately \$3,600. Originally established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

ALMA GLUCK ZIMBALIST SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1940 with a bequest from the late Alma Gluck Zimbalist. It is awarded annually to a student who wishes to major in Political Economics.

SCHOLARSHIPS ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BERGEN CLUB SCHOLARSHIP. A day scholarship, with stipend varying. Awarded to an entering freshman from Bergen County, New Jersey, for one year only.

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP. A day scholarship, with stipend varying, established in 1944. It is awarded annually to a student from Brooklyn.

BARNARD COLLEGE CLUB SCHOLARSHIP. A residence scholarship, with stipend varying, established in 1936 by the Barnard College Club of New York City.

HOLLAND DAMES SCHOLARSHIP. Established by the Daughters of Holland Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student descended from the early Dutch settlers, who is in need of aid.

WESTCHESTER SCHOLARSHIP. Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close of the Class of 1902. Value \$400. Awarded to entering freshmen from Westchester County, for one year only.

SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers 21 Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: *Middle West*, Kansas, Missouri, Nebraska; *South*, Louisiana, New Mexico, Oklahoma, Texas; and *West*, California, Oregon, Washington.

A minimum award of \$100 will be given each successful candidate, regardless of need, with a maximum award on the basis of need to cover room, board, and tuition.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

SPECIAL FUNDS FOR GRANTS-IN-AID

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND. A fund of \$2,000, given by Mrs. James Herman Aldrich. The income is used to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

ALUMNAE SCHOLARSHIP FUND. A fund of approximately \$8,700. Established by the Class of 1912 at its tenth reunion, it was subsequently increased by a legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. The income is to be used to help needy and deserving students.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND. A fund of \$1,640, established in 1927 by friends of the late Edna Henry Bennett, 1915, Lecturer in Zoölogy. The income is to be awarded by the Department of Zoölogy to Barnard students for work at a biological laboratory offering summer courses.

IDA BLAIR MEMORIAL FUND. A fund of \$700, established in 1937 by the Women's Democratic Union, in memory of Ida Blair. The income of the fund is to be used for the purchase, in each year, of books for a student in Barnard College (preferably one studying political science) who shall be designated as deserving by the Dean.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND. A fund of \$1,000, given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth. The income is to be used to help needy and deserving students.

ARTHUR BROOKS FUND. A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND. A fund of approximately \$24,000, given in 1939 by the Anne Brown Alumnae Association and dedicated to the late Anne Brown. The income is used for scholarships for young women of the City of New York who would otherwise be financially unable to attend Barnard.

CARPENTIER SCHOLARSHIP FUND. A fund of \$200,000, the bequest of the late Horace W. Carpentier. The income remaining after the payment of the Carpentier Residence Scholarships described on page 49 is placed at the disposal of the Dean for distribution in scholarships of varying amounts, according to the needs of deserving students.

THOMAS F. CLARK STUDENTS' LOAN FUND. A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

CLASS OF 1919 DECENNIAL FUND. A fund of \$5,000, established in 1929 as a tenth reunion gift by the Class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

CLASS OF 1921 SCHOLARSHIP FUND. A fund of \$2,500, established in 1931 as a tenth reunion gift by the Class of 1921. The income is to be used to help needy and deserving students.

ADA M. DONELLE SCHOLARSHIP FUND. The income of a fund of \$121,751. Founded in 1948 with a bequest from the late Mrs. Ada M. Donelle. The income is to be used for scholarships for the support and education of women students of Barnard College who would otherwise be financially unable to continue their education at the College.

FINE ARTS SCHOLARSHIP FUND. A fund of \$1,400, established in 1939. Grants from this fund may be awarded to students for fine arts travel or study in this country or abroad.

FISKE SCHOLARSHIP FUND. A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.

GALWAY FUND. The income of a fund of \$2,400. Established in 1912 by an anonymous donor. It is awarded annually.

IRMA ALEXANDER GOLDFRANK FUND. A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, 1908. The income is placed at the disposal of the Dean to be used to aid needy and deserving students.

MARION ALICE HOEY FUND. A fund of \$2,000, given in 1944 by Miss Nellie Poorman in memory of a graduate of Barnard College in the Class of 1914. The income is placed at the disposal of the Dean of the College to be used for the aid of needy and deserving students, preference being given to those studying Greek and Latin.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND. A fund of \$5,000, established in 1947 by the estate of the late Grace Farrant Luby, Class of 1893, Barnard College. The income of the fund is to be used for scholarships, preferably for students in need of financial assistance.

CAROLINE CHURCH MURRAY FUND. A fund of \$5,000, established in 1918 by Mr. George Welwood Murray in memory of his wife, Caroline Church Murray. The income is placed at the disposal of the Dean to be used to aid needy and deserving students.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND. A fund of \$3,000, established in 1947 by the estate of the late Frederick Nathan. The income is placed at the disposal of the Dean.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND. A fund of \$5,000, established in 1940 with gifts from the family and friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930. The income is to be used to aid one or more needy and deserving students.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND. A fund of \$17,780, established in 1950 by the family, friends, and classmates of the late Edith Lowenstein Rossbach, 1919. The income is placed at the disposal of the Dean to be used to aid needy and deserving students.

SCHOLARSHIP FUND. A fund of approximately \$12,000, established by general subscription through the Scholarship Committee of the Board of Trustees.

GEORGE W. SMITH SCHOLARSHIP FUND. A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

CLARA BUTTENWIESER UNGER MEMORIAL FUND. A fund of \$1,000, established in 1938 by the late Joseph L. Bittenwieser, in memory of his daughter, Clara Bittenweiser Unger, of the Class of 1913. The income of the fund is to be awarded annually to assist through her senior year a student whose subject of major interest is Government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

ALMA F. WALLACH SCHOLARSHIP FUND. A fund established in 1951 by the estate of the late Richard L. Leo in memory of Alma F. Wallach. The income of the fund is to be used for scholarships.

GRADUATE FELLOWSHIPS

KIMBALL FELLOWSHIP. The income of a fund of \$32,800. Founded in 1938 with a bequest of the late Lillian Emma Kimball. This fellowship is to be awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate study at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP. The income of a fund of \$20,000. Established by Mr. George Welwood Murray in 1930. The holder is

to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is to be awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. This fellowship is not to be applied for, but is to be awarded each year as soon as possible after the mid-year examinations. Students graduating in February are to be eligible, as well as those graduating in June.

PUBLIC SERVICE FELLOWSHIP. The income of a fund of \$30,000. Established in 1934 by the Women's Organization for National Prohibition Reform. The holder is to pursue a year of graduate study in one or more of the related fields of History, Economics, Government, and Social Science at any college or university of approved standing. This fellowship is awarded annually by the Faculty of Barnard College to a woman graduate of any approved college or university who has shown special ability in the field of political science and promise of future usefulness in the public service.

GRACE POTTER RICE FELLOWSHIP. The income of a fund of \$24,000. Established in 1935 by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This fellowship is not to be applied for, but is awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February are eligible, as well as those who are to graduate in June.

THE HERBERT MAULE RICHARDS FUND. A gift of \$5,000. Established by the Barnard Botanical Club, former students, and friends, in memory of Professor Richards, an officer of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. The income from this fund will be granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB SCHOLARSHIP FUND. A fund of \$3,200, established in 1936 by the Alpha Zeta Club. The income will be awarded from time to time to a member of the graduating class for graduate work.

WILLIAM MASON SCHOLARSHIP. The William Mason Scholarship in music is awarded periodically upon the recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. The value of the scholarship may not exceed the income of the fund.

MARGARET MEYER GRADUATE SCHOLARSHIP. An annual graduate scholarship of a value of \$75, established by Mrs. Alfred Meyer in 1923 in memory of Margaret Meyer Cohen of the Class of 1915. Awarded annually to a member of the graduating class to be used towards a course of training in secretarial work.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below a grade of C in any course during the year in which she is a competitor.

1952 ALLEN PRIZE IN MATHEMATICS. A prize of \$600 which will be awarded in February or June of 1952, on the recommendation of the Mathematics Department, to a suitably qualified graduating student whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Any indications suggesting a promising career, including the intentions of the student for her future, will be among the factors given consideration by the committee making the selection. A needy student shall receive the total \$600 towards tuition, fees, and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered as sufficiently well qualified, the award will be deferred until the following year.

ESTELLE M. ALLISON PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, is awarded annually to a student for excellence in literature.

MARY E. ALLISON PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, in memory of her mother, Mary E. Allison, is awarded annually to a student of general excellence in scholarship.

FRANK GILBERT BRYSON MEMORIAL PRIZE. A prize consisting of the income of a fund of \$3,000, founded in 1931 with a bequest from the late Ella Fitzgerald Bryson, of the Class of 1894, in memory of Frank Gilbert Bryson, is awarded annually to a member of the graduating class who has given conspicuous evidence of unselfishness during her college course.

THE COLUMBIA UNIVERSITY BOOKSTORE PRIZE. A prize offered annually by the Columbia University Bookstore to the member of the Sophomore Class who has done the best writing for *Barnard Bulletin*. The prize is a copy of the *Columbia Encyclopedia*.

DEAN PRIZE IN GERMAN. A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000, established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class at graduation who has throughout her course done the best work in German language and literature.

THE JENNY A. GERARD MEDAL. The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College, writing the best essay on American History.

GERMAN PRIZE. A prize consisting of the income of a fund of \$2,000, founded in 1950. It is awarded to a student showing particular excellence and interest in the study of German, in addition to good competence in the other humanities.

VIRGINIA C. GILDERSLEEVE PRIZE IN FRESHMAN ENGLISH. An annual prize of \$50 to that Freshman who, in the opinion of the Freshman English Committee, does the best piece of writing in connection with the work of the Freshman English Course.

HERRMAN BOTANICAL PRIZE. A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

KOHN MATHEMATICAL PRIZE. A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

THE WILLIAM PEPPERELL MONTAGUE PRIZE. A prize consisting of the income of a fund of \$3,000, established in 1949 by Dr. William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. The prize will be awarded biennially on the recommendation of the Philosophy Department, for the best essay on the nature and grounds of moral obligation with particular application to the neglected ethical issue of man's duty to animals.

THE HELEN PRINCE MEMORIAL PRIZE. A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, of the Class of 1922, is awarded annually to an undergraduate student in Barnard College for excellence in dramatic composition.

PRIZE ESSAY CONTEST IN COLONIAL HISTORY. The National Society of Colonial Dames in the State of New York sponsors an annual prize essay contest open to

sophomores, juniors, and seniors of Barnard College. The first prize is \$50 and a gold medal; the second prize is a gold medal.

A topic will be selected from the field of American colonial history by the Barnard College History Department and submitted for approval to the Colonial Dames. This should be done by October of each year. Students will then write essays on the subject, which will be submitted to the History Department and judged for literary excellence and historical accuracy. The History Department, as shortly after March 1 as possible, will then submit the four or five best essays to the Colonial Dames for final judgement of the two prize-winners. The essays should be from 5,000 to 10,000 words in length. The awards will be announced by May 1.

KATHARINE E. PROVOST MEMORIAL PRIZE. A prize consisting of the income of a fund of \$1,000, established in 1949 in memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her sudden death, Superintendent of Buildings and Grounds. This prize is awarded annually to an undergraduate major in Economics for superior work.

THE EMILY JAMES PUTNAM MEMORIAL AWARD FOR CREATIVE WRITING. An annual prize of \$500 open to all undergraduates of Barnard College, to be given for a finished work or work in progress in the field of creative writing, which, in the opinion of the judges, shows the greatest ability and promise. This award is given by G. P. Putnam's Sons in memory of Emily James Putnam, the first Dean of Barnard and the wife of George Haven Putnam, former head of the publishing firm. It is offered as an encouragement to new talent and as a demonstration to young writers that there is sincere interest in their work. All works entered in the contest will be under option for publication by G. P. Putnam's Sons. The prize will be given entirely at the discretion of a board of three judges, chosen by the College and G. P. Putnam's Sons.

CAROLINE GALLUP REED PRIZE. A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion, Barnard College.

SPERANZA PRIZE IN ITALIAN. A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard from 1890 to 1911, is awarded annually to a student in Barnard College for excellence in Italian.

JEAN WILLARD TATLOCK MEMORIAL PRIZE. A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard

Tatlock, of the Class of 1895, is awarded annually to the undergraduate student most proficient in Latin.

VON WAHL PRIZE. A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, of the Class of 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoölogy, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

The following prizes of Columbia University are by their terms open to students of Barnard College:

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in Political Science. The subjects for 1951-52 are: "Restatement of American Policy toward China; Internal Security within a Democratic Framework; Problems of Canadian-American Defense Cooperation; The Hoover Commission Proposals: A Progress Report." For additional information consult Professor Cowan.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for 1951-52 is: "Henry James as a Biographer of Hawthorne." For additional information consult Professor Everett.

EARLE PRIZE IN CLASSICS. A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It is awarded partly on the basis of a special examination, partly on the basis of consistently good work in the regular Greek and Latin courses. The special examination covers specified portions of Greek and Latin literature, sight reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1951-52 are: "Plato, *Gorgias* (edition of W. H. Thompson), and Tacitus, *Dialogus* (edition of G. E. Bennett)."

Students are urged to do much of their work for the examination during the preceding summer vacation. For further information consult Professor Hadas.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College, or Barnard College, or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or

spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. Topics for 1951-52 are as follows: "The Rights of Man in Hobbes and Locke"; "The Rights of Man in Recent Constitutional History"; "Individuality, Artists, and the Rights of Man." For additional information consult Professor Dick.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details, consult Professor Van Doren.

WOODBERRY PRIZE. To be awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. Established by the Woodberry Society as a memorial to the late George Edward Woodberry. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Value of prize about \$100. For additional details, consult Professor Campbell.

Other Prizes:

SUSAN HUNTINGTON VERNON PRIZE. This prize is awarded annually, on recommendation of the Executive Officer of the Department of Spanish, for excellence in Spanish to the best student of the Graduate Class among the following colleges: Barnard, Mt. Holyoke, Radcliffe, Smith, Vassar, and Wellesley. The value of the prize is about \$25.00, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943.

Courses of Instruction and
Departmental Statements

DEPARTMENTAL STATEMENTS

Prerequisites must be completed for each course before the beginning of the session in which the course is given. When no prerequisite or other limitation is listed, the course may be taken for credit by any student in the College. *No credit will be given for courses taken after other courses for which they are prerequisites. Courses must be taken for the credit value announced—no more and no less.*

(See page 27 for specific regulations regarding credits.)

DESIGNATION OF COURSES. Required courses are designated by capital letters. Elective courses are designated by numbers; odd numbers indicate courses offered in the winter session, and even numbers mark those offered in the spring session. Courses which run throughout the year are marked with consecutive odd and even numbers. Courses open only to undergraduates are numbered from 1 through 99; courses open to both undergraduates and graduates are numbered from 100 through 199. In both cases, the lowest numbers are used for introductory courses.

Courses normally given in the winter session which are repeated in the spring session are marked with odd numbers preceded by the letter "R". Even numbers preceded by prefix "R" indicate a course offered in the winter session that is normally given in the spring session.

Full-year courses which must be taken as a unit are marked with a hyphen between the numbers (for example, History 1-2). No credit is given for work dropped at the mid-year of these courses without the written consent of the instructor and the Committee on Programs and Standing.

Full-year courses which may be divided are marked with a comma between the numerals (for example, English 1, 2). The first half of these courses may be taken separately, but admission to the second half of a divisible course without completion of the first half is granted *only when all prerequisites have been met and the written permission of the instructor has been obtained.*

The section number is indicated by a Roman numeral in parentheses after the hour (for example, M., W., and F. at 9 (I), at 10 (II), and so on).

Courses at Columbia University open to Barnard students are marked with an asterisk (*). Courses marked with a dagger (†) are given at Teachers College. Courses prefixed by the letters "G.S." are given in the School of General Studies. These courses are open only to regularly enrolled students of Barnard who are working toward the Barnard degree. Certain other courses at Teachers College not listed here may be taken by specially qualified seniors with the consent of the Class Adviser.

WITHDRAWAL OF COURSES. If a course has not been applied for by at least three candidates for the degree, it may be withdrawn by the instructor.

GRADUATE COURSES. Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on

Programs and Standing of Barnard College to specially qualified seniors. Descriptions of these courses will be found in the appropriate University announcements.

LANGUAGE COURSES. Certain foreign languages which are not offered at Barnard are available at Columbia University. With the approval of advisers and of the appropriate University authorities, qualified Barnard students will be permitted to register for work at Columbia in such foreign languages as are not offered by Barnard College. *A course taken in General Studies must be paid for by the student herself, over and above her Barnard tuition, unless, in the opinion of the College, the course is an integral and important part of her major or of her over-all plan of study.*

FURTHER INFORMATION. Information in regard to examination schedules may be secured from the Class Adviser; for information about topics, textbooks, or methods in any particular course, students are referred to the instructor.

INTERDEPARTMENTAL MAJORS

AREA STUDIES AND INTERNATIONAL RELATIONS

Designed to provide a foundation for the education of students to be good citizens of a world of international coöperation, and also a foundation for the further advanced training of those who will later specialize and work actively in international affairs.

(Students desiring such advanced training may after graduation from Barnard go on to graduate study in a special field or to such professional schools as the School of International Affairs at Columbia University.)

These International Relations and Area Studies majors are open only to a limited number of unusually well-qualified students whose applications for admission are approved by the Committee in charge. Students should apply at the Registrar's office before April 15 of their sophomore year.

Freshmen looking forward to choosing one of these majors should consult the Freshman Adviser.

Committee for 1951-52: DEAN MCINTOSH, Chairman, PROFESSOR PEARDON and DR. MURET.

I. Foreign Areas Studies

Officer in charge for 1951-52, DR. MURET

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable students to concentrate on the civilization of some one area or country of the world.

Students who wish to major in Foreign Areas Studies must satisfy the foreign language requirement (page 28) before becoming majors. They should also take in their freshman and sophomore years at least 12 points in the social sciences.

After being accepted as majors, students will be expected to specialize in the study of one country or region. For this purpose they will continue their work in language and will take such courses in the literature, fine arts, and institutions of their chosen area as may be determined in consultation with their adviser, including at least one course in history and one in geography. In the third and fourth years they will be required to take special reading courses and the Foreign Areas Studies Conference.

(Besides the language courses given at Barnard, courses in Russian, Chinese, Japanese, Arabic, Portuguese, Hebrew, and other languages are available to Barnard students at Columbia.)

Areas of concentration:

1. England, PROFESSOR PEARDON, PROFESSOR ROBERTSON, and MR. BURRELL
2. Far East, PROFESSOR GASTON-MAHLER and MR. HENDERSON
3. France, PROFESSOR HOFFHERR and DR. MURET
4. Germany, PROFESSOR PUCKETT
5. Italy, PROFESSOR BOVÉ
6. Latin America, PROFESSOR DEL RÍO
7. Near and Middle East, PROFESSOR CARRIÉ
8. Russia, MRS. ROSA
9. Scandinavia, DR. MURET
10. Holland, DR. MURET

Lists of specific courses available at Barnard and in other parts of the University for each area can be obtained from the adviser, DR. CHARLOTTE T. MURET.

Courses offered at Barnard:

Foreign Areas Studies 41-42. Special Reading for Junior Majors. 4 points. The Committee on Foreign Areas Studies.

Hours to be arranged. [0]

Under the direct supervision of an instructor specializing in her area of concentration, each student will follow a course of reading designed to supplement the work she does in regular courses.

Foreign Areas Studies 51-52. Special Reading for Senior Majors. 4 points. The Committee on Foreign Areas Studies.

Hours to be arranged. [0]

Readings, reports, and conferences dealing with important books and materials in the area of concentration under the supervision of a specialist in that area.

Foreign Areas Studies 61-62. Foreign Areas Studies Conference. 2 points. Officer in charge, DR. MURET.

Hours to be arranged. [0]

Field trips and meetings with experts on subjects touching foreign areas. Open only to majors and required of them in both junior and senior years.

A course in Spanish shorthand will be offered without charge to Foreign Areas Studies majors whose field is Latin America. No credit.

Hours to be arranged.

II. International Relations

Officer in charge for 1951-52, MR. HENDERSON

Designed for those students who, with a special interest in the social sciences, wish to concentrate on the structure, forces, and problems of modern international society.

Students who wish to major in International Relations should take the following courses in their freshman and sophomore years: *Economics 1-2*; *History 1-2*; a course in *Geography*. They are expected to complete the foreign language requirement by the end of the sophomore year and are advised to continue the study of foreign languages throughout their college course whenever that is possible.

In the junior and senior years, majors in International Relations will be required to take courses in international politics, international trade and finance, and in recent history (*History 25, 26*). In the senior year, also, they will be required to take a seminar in International Relations (*Government 61, 62*).

Government 61, 62. Seminar in Comparative Government and International Relations. 6 points. Professor PEARDON and Mr. HENDERSON.

W., 4-6. [0]

Readings, discussion, and the preparation of papers on significant issues and trends in contemporary politics.

Other Interdepartmental Offerings

A major in natural resources is offered jointly by the Departments of Botany and Geology-Geography. Required courses are *Botany 50* and *51-52*, *Geography 10* and *12*, *Geology 1-2* and *28*, and a Senior Seminar in Natural Resources. All majors must take a course in Field Ecology and Conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Barnard requirements must be fulfilled by the selection of courses to correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

A major in economics and government. Students majoring in economics and government will be required to take:

Economics 1-2, 13 or *14, 17* or *R17, 27, 28*, and *51* or *52* (the choice to be made in consultation with the adviser). *Government 3, 4, 5, 6*, and at least one additional course in government.

Other social sciences. See departmental statements.

The major examination for majors in economics and government will consist of two three-hour examinations drawn up by the two departments in consultation with one another.

A major in government and history. Students majoring in government and history will be required to take:

Government 3, 4, 5, 6, and at least one additional course in government. *History 1-2, 9, 10*, and at least one additional course in history.

Other social sciences. See departmental statements.

A major in government and sociology. Students majoring in government and sociology will be required to take:

Government 3, 4, 5, 6, and *23, 24* or *27, 28*. *Sociology 1-2* and at least 12 additional points in sociology.

Other social sciences. See departmental statements.

A major in economics and sociology. Students majoring in economics and sociology will be required to take:

Economics 1-2, 13 or *14, 17* or *R17, 27, 28*, and *51* or *52* (the choice to be made

in consultation with the adviser). *Sociology 1-2* and courses amounting to 12 more points in sociology and preferably one additional course in economics or in sociology. Only one introductory course may count toward the major.

Other social sciences. See departmental statements.

The major examination for economics and sociology will consist of two three-hour examinations drawn up by the two departments in consultation with one another.

Specialization in American Civilization

A student who majors in economics, English, government, history, or sociology may specialize in American Civilization. An appropriate selection of courses which deal with aspects of American civilization should be made in consultation with the departmental adviser.

Interdepartmental Courses

AMERICA AND THE FUTURE

[Philosophy 91, 92. Schemes for a Better World—A Backward Look over the Utopian Ideals of the Past, an Appraisal of Plans for the Post-war World, and a Taking Stock of the Means to an Ultimate Achievement of the Good Life in the More Distant Future. 4 or 6 points. PROFESSORS PARKHURST and RICH with the collaboration of PROFESSOR SMITH and guest speakers.

Not given in 1951-52.]

The required reading will include the more important Utopias from Plato to the present time supplemented by certain great satires on man and society and works in the field of the social sciences. Class meetings will be devoted in part to a consideration of the texts and in part to symposia in which members of the staff and guest speakers will discuss with one another and with the students the major difficulties that lie in the way of attaining world peace, prosperity, and happiness. In place of a final examination each student will write a serious term paper in which, within the frame of her own conception of the good life, she will treat of that aspect of the problem which she is best equipped to handle.

Open to juniors and seniors and specially qualified sophomores on written permission of the department. The course may count toward a major in philosophy and in other subjects with the consent of the departments concerned.

Foundations of Language Learning

Foundations of Language Learning. 2 points. *Spring Semester.* DR. GODE.

Tu. and Th. at 9. [6]

In this course the languages of the Western World (principally French, Spanish, Italian, and German) are submitted to a comparative study with constant reference to English. The aim, never lost sight of, is the characterization of the Western languages (1) through their common dependence on the Greco-Latin linguistic tradition and (2) in their mutual differences and deviations from a shared norm. The scope of the course involves grammatical problems, a study of Latin and Greek roots as well as general historical and cultural data. Its function is (a) to prepare beginners for subsequent work in specific languages and (b) to fill in background knowledge for those already familiar with one or more of the languages discussed.

No prerequisites.

General Science Courses

General Biological Science. 6 points.

M., W., and F. at 9. [1]

An introduction to living organisms. An elementary course integrating basic facts, principles, and methods from the fields of Botany, Zoölogy, and Psychology. The content of this course will be developed through lectures, discussions, and demonstrations. It is recommended that a student complete a laboratory course in one of the physical sciences before electing this course. It may not be taken for credit by students who have had college courses in Biology, Botany, or Zoölogy.

[General Physical Science. 6 points.

Not given in 1951-52.]

An elementary course integrating basic facts, principles, and methods from the fields of Chemistry, Geology, Physics, and Astronomy. The content of this course will be developed through lectures, discussions, and demonstrations. It is recommended that a student complete a laboratory course in one of the biological sciences before electing this course. This course may not be taken for credit by students who have had college courses in Chemistry, Geology, Physics, or Astronomy. Limited to 50 students with preference given to seniors.

Written permission of Professor Downes required.

ANTHROPOLOGY

GLADYS A. REICHARD, Ph.D., Professor of Anthropology,
Executive Officer

As preparation for the major in anthropology, the department recommends as much background work as possible in the subjects required for the liberal arts degree. The student should try to complete before her junior year the requirements in history and science, particularly the introductory courses in geology, geography, and zoölogy.

A major in anthropology. Students majoring in anthropology will be required to take: *Anthropology 1, 2, 3, 4*, and courses depending upon individual interests. The major examination is in two parts (three hours each), and is designed to test the student's ability to coördinate the courses she has taken in her major subject. Course examinations in anthropology are waived the last semester. A reading knowledge of German is strongly recommended.

In addition to the general requirements, the following combinations of courses are suggested:

For students interested primarily in the biological aspects of anthropology: *Anthropology 17, zoölogy, genetics (either in botany or zoölogy), geography*.

For students interested primarily in the social sciences: *Anthropology 13, 14, 17; economics, geography, government, history, philosophy, psychology, religion, sociology*.

For students interested primarily in archaeology: *Anthropology 108, ancient history, classical civilization and archaeology, geography, geology*.

For students interested primarily in the humanities: *Anthropology 5-6, 107, 108, classical mythology, fine arts, geography, geology, language and literature, philosophy*.

Seminars in anthropology are directed toward the special interests of the majors and others who have had at least one course in anthropology other than Anthropology 5-6. A seminar is held when warranted by the number of students electing it.

1, 2. Introduction to Anthropology. 6 points. PROFESSOR REICHARD and Assistant.

Lectures: Tu. and Th. at 10. *Laboratory (2 hours)* at the American Museum of Natural History at hours to be arranged. [7]

Winter Session: Physical relationship, language, and customs of tribes of Africa and the South Sea islands. Their contribution to civilization; theories of origin and development; problems and policies of colonial government and trusteeships. *Spring Session:* the same subjects in relation to tribes of the new world (Indians of North and South America).

Open to all except freshmen.

[3, 4. Introduction to Cultural Anthropology. 6 points. PROFESSOR REICHARD and Assistant.

Not given in 1951-52.]

The evolution of man; race; development of ideas, forms of art, society, and religion. The applica-

tion of anthropological methods to modern social problems; the development of reason; emotion attitudes determining behavior; the individual and society.

Open to all except freshmen.

Courses 1, 2, and 3, 4 are ordinarily given in alternate years.

5-6. Introduction to Linguistics. 4 or 6 points. PROFESSOR REICHARD.

M. and W. at 2. [5]

Language, thought, and behavior patterns; relationship of language to culture, especially literature; problems of translation. Examples are taken from English and the languages with which the students are familiar.

Especially recommended for foreign students and those interested in language and linguistic problems.

[13. Social Life of Primitive Peoples. 3 points. PROFESSOR REICHARD.

Not given in 1951-52.

Tribal and family organization and reflection on marriage customs, political purpose, and territorial expansion; prestige, property, wealth, inheritance, position of women, education; birth, puberty, and funeral customs; the relation of the individual to his social environment in modern and primitive societies.

Open to all except freshmen.

14. Religion in Primitive Society. 2 or 3 points. PROFESSOR REICHARD.

M. and W. at 3. [10]

Development of religion; the effect of religion on culture, motivations, and behavior.

Open to all except freshmen.

17. Problems of Race. 3 points. PROFESSOR REICHARD.

M. and W. at 3 and conferences. [10]

The meaning of race: biological, linguistic, economic, social, religious, political; the nation and the melting pot; composition and distribution of world populations and their significance; population changes and causes; the basis of prejudice.

Open to all except freshmen.

51, 52. Seminar: Problems in Anthropology. 4 or 6 points. PROFESSOR REICHARD.

Hours to be arranged. [0]

The specific subject for discussion will be determined by the interests of the students electing the course.

Open only to students who have had at least one course in anthropology other than Anthropology 5-6, and with the written permission of the instructor. May be taken two years in succession.

[107. The Study of Folklore. 2 or 3 points. PROFESSOR REICHARD.

Not given in 1951-52.

Development of literary form and style from mythology; the proverb, riddle, folk tale, myth, fairy tale, romance, verse, and song: characters and plot. The course aims to acquaint students with little known material in folklore, and to indicate how it has been used by writers.

Open to juniors and seniors.

[108. The Art of Primitive Man. 3 points. PROFESSOR REICHARD.

Not given in 1951-52.

Control of technique; geometrical and representative design; studies of proportion, design, line and mass, rhythm, symmetry, balance, and color; the artist and the social group; the influence of primitive on modern art.

Open to juniors and seniors.

ARCHAEOLOGY

See Fine Arts and Archaeology and Greek and Latin

ASTRONOMY

JAN SCHILT, Ph.D., Rutherford Professor of Astronomy,
Executive Officer

***1-2. General Astronomy.** Introductory course. 6 points. PROFESSOR SCHILT.

Tu. and Th. at 11. 208 Pupin.

Observatory work: Hours to be arranged.

Astronomy 1 deals with the celestial sphere and the solar system; *Astronomy 2* gives an introduction to the properties of the stars and the structure of the sidereal universe.

BOTANY

DONALD D. RITCHIE, Ph.D., Assistant Professor of Botany,
Executive Officer

HELEN B. FUNK, M.S., Assistant Professor of Botany

VICTOR R. LARSEN, JR., M.A., Instructor in Botany

JOAN DALY, A.B., Assistant in Botany

ALLINE MARSHALL, A.B., Assistant in Botany

A major in botany. Students majoring in botany will be required to take:

Botany. Courses 51-52, 53-54 or 55-56, and such other courses, subject to the approval of the department, as meet the particular needs and purposes of each student. Only one of the two courses, 50 and 60, may be counted toward a major.

Other fields. Other courses according to the special needs of the student.

Major students are permitted to use a limited space in the greenhouse for practical work in plant propagation.

Natural Resources. A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Majors, page 68.

51-52. General Botany. 8 points. PROFESSOR RITCHIE and Staff.

Lectures: Tu. and Th. at 9 and Th. at 1.

Laboratory (2 hours): Tu., 10-12 or 2-4. [6]

Full-year course.

A portion of the laboratory work is conducted in the greenhouse.

51a-52a. General Botany. 6 points. PROFESSOR RITCHIE and Staff.

Tu. and Th. at 9 and Th. at 1. [6]

Lectures identical with those of 51-52. No laboratory work. Full-year course.

To follow or parallel: a laboratory science.

G.S. Botany 3-4. Plant Geography. 6 points. PROFESSOR LIER.

Tu. and Th. at 10. Room 414 Pupin.

Field Work: Hours to be arranged.

This course deals with distribution of plant life in North America at the present time and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants.

Prerequisite: *G.S. Botany 1-2* or *Course 51-52*.

Registration limited. Admission only with the consent of Professor F. G. Lier.

[53-54. General Morphology of Plants. 8 points. MR. LARSEN.

Not given in 1951-52.]

Full-year course.

Prerequisite: *Course 51-52* or the equivalent. Occasional field trips are required.

55-56. Structure and Relationships of Flowering Plants. 8 points. PROFESSOR RITCHIE.

Lectures: M. and W. at 11.

Laboratory (4 hours): M. and W., 1-3. [3]

Full-year course.

Prerequisite: *Course 51-52* or the equivalent. Frequent field trips.

50. Plant Resources. 3 points. MR. LARSEN.

Lectures: M. and W. at 1.

Demonstrations, conferences, and trips: Th., 2-4. [4]

The place of plants in the biological picture; their utilization and significance to man.

This course does not satisfy the requirement of a laboratory science.

58. General Plant Physiology. 5 points.

Lectures: Tu. and Th. at 10.

Laboratory (6 hours): Tu. and Th., 2-5. [7]

Prerequisite: *Course 51-52* and at least one year of college chemistry.

[59. Genetics. 4 points. PROFESSOR RITCHIE.

Not given in 1951-52.]

Mendelian principles of heredity, sex determination and differentiation, genetic control of development.

Prerequisite: a year of college work in either botany or zoölogy except on written permission of the instructor.

60. Plant Culture. 3 points. PROFESSOR RITCHIE.

Lecture: M. at 4.

Laboratory (4 hours): M., 3-4, F., 1-4. [10]

Theoretical discussions and practical work on plant propagation in the greenhouses.

No previous knowledge of botany is required. This course does not satisfy the requirement of a laboratory science. Open only on written permission of the instructor.

61. Microtechnique. 3 points. MR. LARSEN.

Lecture: M. at 11.

Laboratory (4 hours): M. and W., 1-3. [3]

Lecture and laboratory work in the theory and practice of fixing, sectioning, and staining plant material.

Prerequisite: *Botany 51-52*.

[68. Cytology. 5 points. PROFESSOR RITCHIE.

Not given in 1951-52.]

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, and phase microscopy, etc.

Prerequisite: at least a year of college work in either botany or zoölogy.

151. Introduction to Microbiology. 4 points. PROFESSOR FUNK and MISS DALY.

Lectures: M. and W. at 1.

Laboratory (4 hours): M. and W., 10-12 or 2-4. [4]

Survey of structure, distribution, and activities of microörganisms in soil, water, and foods. Some attention will be devoted to industrial processes, antibiosis, causation of disease, and immunological reactions.

Prerequisites: one year of college work in botany or zoölogy and preceding or parallel registration in organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. *Open to juniors and seniors.*

152. Advanced Microbiology. 4 points. PROFESSOR FUNK and MISS DALY.

Lectures: M. and W. at 1.

Laboratory (4 hours): M. and W., 10-12 or 2-4. [4]

Advanced cytological techniques, the growth curve, and variation in microörganisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts.

Prerequisite: *Course 151* or equivalent.

[160. Physiological Microbiology. 3, 4, or 5 points. PROFESSOR FUNK.*Not given in 1951-52.]*

General physiology of microorganisms. Reading and reports on contemporary literature. Technique and cultivation of various groups adapted to the needs of students.

Open only on written permission of the instructor.

161, 162. Special Problems in Microbiology, Morphology, and Physiology. 2 to 8 points.

Members of the Staff.

Hours and credit by arrangement after consultation with the Department. [0]

Work will be planned to suit the needs of the students after consultation with instructors.

This course may be taken in successive years.

CHEMISTRY

HELEN R. DOWNS, Ph.D. (Cantab.), Professor of Chemistry,
Executive Officer

EDWARD J. KING, Ph.D., Assistant Professor of Chemistry

EMMA D. STECHER, Ph.D., Associate Professor of Chemistry

LUCILLE H. ALTSCHUL, Ph.D., Instructor in Chemistry

CAROL R. ENGLE, A.M., Instructor in chemistry

A major in chemistry. Students majoring in chemistry will be required to take:

Chemistry. Course 1-2 or 5-6; 23, 24; 41a, 42a; 41b, 42b and 99. Courses 105, 106, 107, and 108 are strongly advised.

Other fields. Physics—a year's work in college physics. *Mathematics 1* and *22*. A course in calculus is advised. A reading knowledge of German to be acquired by the beginning of the third year's work. A reading knowledge of French is also advised.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take *Courses 105, 106, and 107*, at least 4 points of advanced lectures, and 2 points of advanced laboratory.

1-2. General Inorganic Chemistry. 8 points. PROFESSOR DOWNES, DR. ALTSCHUL, and MISS BURCHSTED.

Lectures: For all students—Tu. and Th. at 10 and a third hour, S. at 10 or F. at 1. For students who have had no previous work in chemistry—a fourth hour, Th. at 1, will be required during the first term.

Laboratory: M., Tu., W., or Th., 2-4:30. [7]

Full-year course.

1a-2a. General Inorganic Chemistry. 6 points. PROFESSOR DOWNES and DR. ALTSCHUL.

Tu. and Th. at 10 and F. at 1. [7]

Lectures identical with those of 1-2. No laboratory work. Full-year course.

Prerequisite: preceding or parallel, a laboratory science.

[5-6. General Inorganic Chemistry. 10 points. PROFESSOR KING and Assistant.

Not given in 1951-52.]

This course is intended for students whose high school chemistry fits them for a more advanced treatment of inorganic chemistry than is given in *Course 1-2*. A qualifying test will be given at the beginning of the term to students electing this course.

23. Qualitative Analysis. 6 points. PROFESSOR KING and MISS VOSGIAN.*Lectures:* M., W., and F. at 10.*Laboratory (a minimum of 6 hours):* Tu. and Th., 9-12 or 2-5. [2]

Lectures on solutions of electrolytes and ionic equilibria. The laboratory work consists of qualitative analysis on a semi-micro scale.

Prerequisite: *Course 1-2 or 5-6.* Preceding or parallel, *Mathematics 1* and 22. Laboratory deposit, \$10.**24. Quantitative Analysis.** 6 points. PROFESSOR KING and MISS VOSGIAN.*Lectures:* M. and W. at 10.*Laboratory (a minimum of 8 hours):* M. and W., 2-6 or Tu. and Th., 2-6. [2]

An introduction to basic quantitative techniques.

Prerequisite: *Course 23.* Laboratory deposit, \$10.**26. Quantitative Analysis, Special Course.** 6 points. PROFESSOR KING and MISS VOSGIAN.*Lectures:* M., W., and F. at 10.*Laboratory (a minimum of 6 hours):* M. and W., 2-5 or Tu. and Th., 2-5. [2]This course is intended for students who are not chemistry majors and who have not taken *Course 23.* The third lecture hour is used for further discussion of the principles of ionic equilibria.Prerequisite: *Course 1-2 or 5-6.* Laboratory deposit, \$10.00.**41a, 42a. Organic Chemistry.** 8 points. PROFESSOR STECHER.*Lectures:* M., W., and F. at 9 and Th. at 1. [1]*Chemistry 41a, 42a,* with the corresponding laboratory courses, make up a comprehensive one-year course in elementary organic chemistry. The material is so arranged, however, that *Courses 41a* and *41b* satisfy the minimum requirement for medical school.Prerequisite: For *Course 41a—Course 1-2 or 5-6* and *Course 41b* (parallel). For *Course 42a—Courses 1-2 or 5-6, 23, 24, 41a, 41b* and *42b* (parallel).**41b, 42b. Organic Chemistry Laboratory.** 4 points. PROFESSOR STECHER and MISS ENGLE.*Laboratory (a minimum of 6 hours):* Tu. and Th., 9-12 or 2-5. [0]Prerequisite: preceding or parallel, *Courses 41a, 42a.*

Laboratory deposit, \$12.50 each session.

63, 64. Advanced Laboratory Course. 4 or 6 points. PROFESSORS DOWNES, STECHER, or KING.

Laboratory hours to be arranged. [0]

Conferences and laboratory work in the fields of advanced organic or inorganic synthesis or of quantitative inorganic, organic, or physiological chemistry.

Open to students who have completed the major requirements except *Course 99.*

Laboratory deposit, \$15.

99. Conferences in Chemistry. 2 points. Members of the Department.

F., 3-5. [0]

Readings and discussion of selected topics.

*Required of majors in their senior year.***105, 106. Physical Chemistry.** 6 points. PROFESSOR KING.*Lectures:* M., W., and F. at 11. [3]

A course in chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium.

*Except by special permission, chemistry majors must elect Courses 107, 108 parallel.*Prerequisite: *Courses 1-2 or 5-6; Physics 3-4* and *Mathematics 31-32.***107, 108. Physical Chemistry Laboratory.** 6 points. PROFESSOR KING.*Laboratory (a minimum of 4 hours):* Th., 1-5, and conference hour Tu. at 2. [0]Chemistry majors must take this course parallel with 105, 106 *except by special permission.*Prerequisite: *Courses 23, 24; 105, 106* (parallel); *Physics 3-4* and *Mathematics 31-32.* Laboratory deposit, \$15 each session.

137, 138. Problems in Chemistry. 4, 6, or 8 points. PROFESSORS DOWNES, KING, and STECHER.

Hours and credit by arrangement. [0]

Advanced individual laboratory projects for students who have completed the major requirements except *Course 99*.

Laboratory deposit, \$15 each session.

145, 146. Organic Chemistry, Advanced Course. 4 points. PROFESSOR STECHER.

Lectures: M. and F. at 1. [4]

Advanced topics including modern theories of the mechanisms of organic reactions and the chemistry of some natural products.

Open only to students who have completed the major requirements except *Course 99*.

150. Physiological Chemistry. 3 points. PROFESSOR DOWNES.

Lectures: M., W., and F. at 10. [2]

A course dealing with the chemistry of the living cell; the raw materials of cell metabolism and intermediary metabolism.

Prerequisite: *Courses 23, 24, 41a, 41b, 42a, 42b, and Zoölogy 1-2.*

The quantitative laboratory work associated with this course is given as *Course 64*.

CLASSICAL CIVILIZATION

See Greek and Latin

ECONOMICS

ELIZABETH FAULKNER BAKER, Ph.D., Professor of Economics

RAYMOND J. SAULNIER, Ph.D., Professor of Economics,

Executive Officer

CLARA ELIOT, Ph.D., Assistant Professor of Economics

ROBERT LEKACHMAN, A.M., Instructor in Economics

EVA BOENHEIM HIRSCH, A.M., Instructor in Economics

A major in economics. Students majoring in economics will be required to take:

Economics 1-2, 13 or 14, 17 or R17, 27 or 28, and 51, 52. Course 18 is strongly recommended.

Major examination: a three-hour written examination in addition to the seminar for seniors which requires a term paper in the first semester. Majors will also take course examinations.

Other social sciences. In view of the essential unity of the social sciences, every student majoring in economics is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, as selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

See Interdepartmental Majors, page 68.

1-2 Introductory Economics. 6 points. PROFESSORS BAKER and SAULNIER, MR. LEKACHMAN and MRS. HIRSCH.

For all except freshmen: M., W., and F. at 10 (I); at 2 (II); Tu. and Th. at 10 and W. at 1 (III); *for freshmen and sophomores:* M., W., and F. at 9 (IV).

Each section should be limited to 30 students. [18]

Winter Session: Central problems of every economic society and the functions of a "mixed"

capitalistic enterprise system. Individual and family incomes and occupations; corporations, labor organizations and problems; personal finance and social security; government expenditures and taxation; national income; saving and investment; money, prices, and interest rates. *Spring Session*: The Federal Reserve System and central-bank monetary policy; the business cycle; international trade and tariffs; fiscal policy and "full employment"; economic principles as a guide to policy under competition and monopoly; public ownership and economic planning; the crisis of capitalism; "planned economy": Socialism, Communism, Fascism. Students will be shown a method of analysis useful to the understanding of these subjects.

Open to students of all classes.

[3. Economic Problems of the Consumer. 2 points. PROFESSOR ELIOT.

Not given in 1951-52.

How well does our economic order serve us as *consumers*? Can standards of living be raised? Special problems such as consumer credit, budgeting, standards and grade labeling, housing, medical care, advertising, style and fashion, "fair price" laws, lessons of price-control and rationing. Protection of the consumer by the government, by consumer organizations. The coöperative movement.

13, 14. Development of Capitalist Institutions. 6 points. MRS. HIRSCH.

M., W., and F. at 1. [4]

A survey of the development of our present economic society, with special emphasis on western Europe and on the United States. *Winter Session*: The genesis of capitalist forms in ancient and medieval Europe. Technological and economic changes in the eighteenth and nineteenth centuries. The development of those financial institutions, forms of business enterprise, and techniques of private and governmental control characteristic of capitalism in twentieth-century Europe. *Spring Session*: The development of the American economy from colonial times. Early American mercantile capitalism. Industrial and finance capitalism in the nineteenth and twentieth centuries. Structural changes in the economy: types of production, employment, and industrial organization. The impact of two world wars on the American economy.

Open to all except freshmen.

15. Fiscal Policy and Economic Planning. 3 points. MRS. HIRSCH.

M., W., and F. at 2. [5]

The economics of planning, with reference to the experience of particular countries. The rôle of fiscal policy in relation to full employment, inflation, and reducing inequality in the distribution of national income and wealth. Critical analysis of our present tax, expenditure, and debt systems, including a discussion of federal, state, and local fiscal relations. Analysis of current fiscal proposals.

Prerequisite: *Course 1-2* or the equivalent.

16. International Economic Policy. 3 points. MRS. HIRSCH.

M., W., and F. at 2. [5]

International monetary and trade problems. The mechanism and theory of international exchange. The breakdown of the international trading system, with particular reference to the position of the United States and Britain in the world economy. Current experiments in international economic planning: the International Monetary Fund and the International Bank for Reconstruction and Development; the International Trade Organization; the Marshall Plan; the E.C.A.

Prerequisite: *Course 1-2* or the equivalent.

17 (or R17). Introduction to Statistical Analysis. 3 points. PROFESSOR ELIOT.

Winter Session: Tu. and Th. at 10 and a laboratory hour to be arranged. [7]

Spring Session: Tu. and Th. at 9 and a laboratory hour to be arranged. [6]

The gathering of statistical data; tabulation; graphic presentation; simpler methods of summarization and comparison. The normal curve, sampling, and unreliability. Statistical fallacies. Illustrations from various sciences. Possibilities and limitations of the statistical method.

Open to all except freshmen.

18. Statistical Analysis. 3 points. PROFESSOR ELIOT.

Tu. and Th. at 10 and a laboratory hour to be arranged. [7]

Index numbers; analysis of time-series; correlation; analysis of variance.

Prerequisite: *Course 17* (or *R17*) or the equivalent.

19, 20. Labor Economics. 6 points. PROFESSOR BAKER.

M., W., and F. at 11. [3]

An introduction to analysis of the labor market in the American private-enterprise system. After

examining the composition of the working population, the *Winter Session* will be devoted to the *institutions* of the labor market: the growth, structure, and government of trade-unions, their collective bargaining policies, and wage and non-wage practices; management dealing with organized and with unorganized labor; government policy toward collective bargaining and toward the individual worker—legislation; the Taft-Hartley Act. *Spring Session*: The *operation* of the labor market: wage determination; impact upon the volume of employment of seasonal and cyclical fluctuations and of technological change; the problem of wages and income in a full-employment economy; unsolved problems.

Prerequisite: *Course 1-2*, and *Course 19* is prerequisite to *Course 20* unless the student has the written permission of the instructor. This course is recommended to students interested in personnel work.

21. Corporation Finance and Investment. 3 points. PROFESSOR BAKER.

M., W., and F. at 10. [2]

An introduction to the nature of financial and business organization. The nature and function of corporate securities in capital formation, promotion, and capitalization. The meaning and uses of financial statements. The principles and practices of investment are studied in connection with a class project which includes following the financial sections of the newspapers and observing the attempts of the Securities and Exchange Commission to protect investors.

Prerequisite: *Course 1-2*. Given in alternate years.

22. Business Enterprise and Personnel Administration. 3 points. PROFESSOR BAKER.

M., W., and F. at 10. [2]

The business organization as a going concern dealing with its problems of credit and finance, production, marketing, and personnel; the balance sheet and the income account; the rôle of the government.

Prerequisite: *Course 1-2*. This course is recommended for students interested in personnel work. Given in alternate years.

[25. Industrial Relations and Personnel Administration. 3 points. PROFESSOR BAKER.

Not given in 1951-52.]

A study of labor-management relations under the impact of technological change, in theory and in practice. The union challenge to management control. The rôle of the government in settling grievances and disputes. The outlook for mutual survival of organized labor and organized management in the dilemma between progress and security.

Each student will have a supervised project which entails field work in New York City, probably at the National Labor Relations Board.

Prerequisite: *Course 19*, preferably also *Course 20*.

27. Development of Economic Thought. 3 points. MR. LEKACHMAN.

Tu. at 2 and Th., 2-4. [9]

A systematic presentation of the development of economic thought beginning with Smith, continuing with Ricardo, Malthus, and Mill, and culminating in the work of Marshall in England and J. B. Clark in this country. There will be an attempt to relate the work of each man to the persistent problems of his time. Considerable attention will also be devoted to the intellectual reaction to classical theory represented by Marx and Veblen. Readings will be assigned in original texts.

Prerequisite: *Course 1-2*.

28. Economic Analysis. 3 points. MR. LEKACHMAN.

Tu. at 2 and Th., 2-4. [9]

Building upon the historical basis of earlier economic thought, this course will include the major topics of current economic theory: the neo-classical explanations of value, distribution, and competitive price; Chamberlin's theory of monopolistic competition; and the modern theory of demand. This part of the semester's work will be devoted largely to an analysis of the individual firm and industry. The second part will consider the Keynesian theory of employment, both as a tool of economic analysis and as a basis for governmental policy. Current problems will be stressed.

Prerequisite: *Course 1-2*.

29. Economic Fluctuations. 3 points. MR. LEKACHMAN.

Tu. and Th. at 9 and Tu. at 11. [6]

A survey of the suggested causes of and possible remedies for economic fluctuations, based mainly on the experience of the United States. The course will consider the theories of J. M. Keynes, J. A. Schumpeter, and W. C. Mitchell in the light of current statistical and historical information.

Prerequisite: *Course 1-2*.

32. Comparative Economic Systems. 3 points. MR. LEKACHMAN.

Tu. and Th. at 9 and Tu. at 11. [6]

A discussion of the economic problems of the United States, England, Russia, and Germany, based on the varying institutions and economic philosophies of these countries.

Open to juniors, seniors, and to sophomores by special permission.

51, 52. Economics Seminar. 6 points. PROFESSOR SAULNIER.

W., 3-5. [0]

Required for senior majors. Reading, reports, and discussion.

61, 62. Studies in Economics. 2 points. Members of the Department. [0]

Selected topics and books, and/or a term paper. The student will select her instructor according to the subject of her special interest.

This course may be taken only in connection with some other course in economics and may be repeated.

123-124. Financial Institutions. 6 points. PROFESSOR SAULNIER.

M. and W. at 1 and W. at 2. [4]

A study of the functioning of the principal public and private agencies comprising the financial system of the United States, and of corporate financial policies, from the viewpoint of their relation to the flow of money payments and the process of capital formation.

Open to seniors. Prerequisite: *Course 1-2* and at least two other courses in economics.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Political Science. The following are specially recommended as suitable for Barnard seniors:

***Economics 145. The Structure of the Soviet Economy.** 2 points. PROFESSOR BERGSON.

Tu. and Th. at 11. 403 Schermerhorn.

***Economics 146. Soviet Prices and Finance.** 2 points. PROFESSOR BERGSON.

Tu. and Th. at 11. 403 Schermerhorn.

Economic Statistics 191-192.** 6 points. PROFESSOR MILLS.Economics b281. Structure of the American Economy.** 3 points. PROFESSOR SHOUP.

Open to Barnard students with the written permission of the instructor.

W., 5:30-7:15. School of Business.

COLUMBIA COLLEGE COURSES

The following course is recommended as suitable for qualified Barnard students:

***Statistics 3-4. Statistical Methods and Their Applications.** 6 points. PROFESSOR CROXTON.

EDUCATION

LAWRENCE A. CREMIN, Ph.D., *Departmental Representative*

Students interested in teaching should concentrate in the senior year on subject-matter courses which will provide background for their major teaching field and should plan to take, in addition, a year of graduate work in education. It is desirable

to consult departmental advisers in Teachers College during the junior year. *No student may register for any course in education without consulting Associate Dean Lorna F. McGuire.*

Teachers College will offer in 1951-52 two basic courses in education for seniors in Barnard College and Columbia College who wish an introduction to American education and the teaching profession.

†51. **Problems of American Education.** 3 points. DR. CREMIN.

Winter: M., 1:10-3 and W., 1:10-2, 221 T. C.

An orientation to selected, fundamental problems of American education. These problems are studied in relation to the history of major social and psychological traditions and movements in American and Western culture. An attempt is made to help students in developing an integrated outlook on educational aims and methods through the examination of both the individual and institutional bases of education. A limited time will be spent in observing in actual school situations.

†52. **The School and the Teacher.** 3 points. DR. CREMIN.

Spring: M., 1:10-3 and W., 1:10-2, 221 T. C.

A study of important aspects of the present-day educational programs in relation to the orientation of the first semester. Particular attention will be given to the development, the organization, and the general methods of a modern school curriculum, the administrative structure of the American public schools, and the teacher's rôle in the school and community. A limited time will be spent in observing in actual school situations.

ENGLISH

¹ W. CABELL GREET, Ph.D., Professor of English

² JAMES L. CLIFFORD, Ph.D., Professor of English

¹ LORNA F. MCGUIRE, Ph.D., Associate Professor of English

DAVID A. ROBERTSON, JR., Ph.D., Associate Professor of English,
Departmental Representative

JOHN A. KOUWENHOVEN, Ph.D., Professor of English,
Chairman of the Department

LUCYLE HOOK, Ph.D., Assistant Professor of English

³ FRENCH R. FOGLE, Ph.D., Assistant Professor of English,
Secretary and Examinations Officer

ELEANOR M. TILTON, Ph.D., Assistant Professor of English

ELEANOR ROSENBERG, Ph.D., Visiting Assistant Professor of English

¹ MARY MORRIS SEALS, Associate in English

FRANCES K. MARLATT, A.M., J.D., Associate in English

FREDERICA P. BARACH, A.B., Associate in English

ROSAMOND GILDER, Associate in English

ADOLPHUS J. SWEET, A.M., Instructor in English

GLORIA MANDEVILLE, A.M., Instructor in English

INEZ G. NELBACH, A.M., Instructor in English

EARL W. STEVICK, A.B., Instructor in English

BARRY ULANOV, Instructor in English

HOWARD TEICHMANN, A.B., Lecturer in English

JOHN L. THOMAS, A.B., Lecturer in English

A major in English. Every student graduated as a major in English is expected to be skilled in the common arts of reading, writing, and speaking. On the college level this

¹ Absent on leave, Spring Session.

² Officer of Columbia University giving instruction in Barnard College; absent on leave, 1951-52.

³ Absent on leave, 1951-52.

implies that the graduate has read and can read with understanding a considerable number of the principal authors of English literature, ancient and modern. This learning in literature must be accompanied by some knowledge of the English language from an analytical or historical point of view. Further, English majors are asked to devote particular attention to a special field, such as American literature or a period of English literature, or drama, writing, or speech. A list of fields and advisers may be obtained from the department office. See Courses 91, 92 and 93, 94.

The major examination is divided into three parts: (I) Chaucer, Shakespeare, Milton, and selected authors, English and American, of the eighteenth, nineteenth, and twentieth centuries; (II) the English language, including translation of Anglo-Saxon or Middle English; (III) work in a special field. Parts I and II constitute a general examination which is identical for all majors in English and presupposes at least 18 points of appropriate courses. Part III is a special examination or requirement which varies according to the field of particular interest. Not later than the beginning of the senior year, all English majors should consult with their advisers and plan their work in preparation for Part III. English majors in literature should elect some 15 points of related courses, not necessarily in the English Department, to prepare for an examination in a special field. English majors in writing must have an average grade of at least B in writing courses totaling 18 points; they fulfill Part III by submitting a satisfactory example of their work. English majors in speech must have an average grade of at least B in speech courses totaling 18 points, and take as Part III an oral examination in phonetics and the mechanics of voice. *N.B.* All students who have a grade of A, B, or C in Course 43 or 44 may be excused from Part II.

INTRODUCTORY COURSES

A1-A2. Reading, Writing, and Speaking. 6 points. PROFESSORS KOUWENHOVEN, ROBERTSON, HOOK, TILTON, and ROSENBERG, MISSES NELBACH and MANDEVILLE, and MESSRS. SWEET and THOMAS.

M., W., and F. at 9 (Ia); M., W., and F. at 10 (IIa, b); M., W., and F. at 11 (IIIa, b); M., W., and F. at 1 (IVa, b); M., W., and F. at 2 (Va, b); Tu., Th., and S. at 10 (VIa); Tu., Th., and S. at 11 (VIIa); Tu., Th. at 11, W. at 4 (VIIIa). [0]

An approach to the literary skills through intensive reading, regular assignments in composition, and discussion; individual conferences with the instructor each week. Full-year course.

Prescribed for freshmen and prerequisite for any other course except *Courses 20, 21-22, 27, 28*, which are recommended to be taken parallel to *A1-A2*. Students not thoroughly accustomed to the use of English should consult PROFESSOR KOUWENHOVEN or PROFESSOR HOOK before registering for this course.

A3, A4. Reading, Writing, and Speaking of English for Foreign Students. 8 points. MR. STEVICK.

Tu. and Th. at 9, plus three conferences each week. [0]

D1, D2. Speech. No credit. MISS NELBACH.

Hours to be arranged. [0]

Conferences required of transfer students who have not had the equivalent and who are not enrolled in *English A1*.

WRITING

General prerequisite, Course A1-A2. To elect any course in writing, a student must secure the written permission of the instructor in charge.

1, 2. English Composition. 6 points. MR. THOMAS.

M., W., and F. at 11. [0]

A course designed especially for students who need additional training in composition beyond the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Conferences to meet the needs of the student.

3, 4. Exposition: Structure and Style. 6 points. MISS MANDEVILLE.

Tu. and Th. at 10 and Th. at 2. [0]

An advanced course in composition including study of the main types of discourse and analysis of selected prose passages. Students will develop writing projects of their own choice, but for the duration of the national emergency special attention will be given to the preparation of professional reports and analyses, and to the writing of summaries, briefs, and minutes.

Course 3 is prerequisite to Course 4.

5, 6. Advanced Composition. 6 points. PROFESSOR KOUWENHOVEN.

M., W., and F. at 2. [0]

In the tradition of such writers as Emerson, Arnold Bennett, Mark Twain, and Katherine Mansfield, the members of the class will keep daily journals and work up the material in finished papers. Thus the course, in addition to the daily practice in expository, descriptive, and narrative writing, will train students to assemble and to organize this material for formal presentation in articles and fiction.

Course 5 is prerequisite to Course 6.

9. Literary Criticism. 3 points. MR. ULANOV.

Tu. and Th. at 11 and Th. at 1. [0]

The chief individual talents and the major traditions in literary criticism, from Plato to the present. Practical experience through frequent short critical papers and one long critical essay.

The following courses are open only to those who have had at least one of the four writing courses listed above, or the equivalent.

11, 12. Story Writing. 6 points. MRS. BARACH.

M., 2-3 and W., 2-4. [0]

This is a workshop course, providing continuous experience in planning and writing short fiction. Class discussion and individual editorial conferences with the instructor are aimed at providing an understanding of the central problems of short story writing, and the technical means by which they can be attacked. Included also are reading and analysis of a wide range of short stories, and criticism by the class of one another's manuscripts.

Course 11 is prerequisite to Course 12.

14. Writing for Radio. 2 or 3 points. MR. TEICHMANN.

M., 3-5. [0]

Preparation of radio scripts. Writing of original shows and adapting of other material for broadcasting.

15, 16. Playwriting. 6 points. PROFESSOR HOOK and MR. SWEET.

M. at 3 and W., 3-5. [0]

The writing and production of original plays, sketches, and pantomimes. The basic principles of stagecraft, lighting, directing, and acting. The purpose of this course is to develop understanding of drama as literature and as art.

Course 15 is prerequisite to Course 16.

[17, 18. Writing of Non-Fiction. 6 points.

Not given in 1951-52.]

SPEECH

20. Extemporaneous Speaking. 1 point. MISS NELBACH.

Th. at 1. [0]

Practice in discussion and speaking to small groups for students who wish help in making themselves understood and who wish experience in thinking on their feet.

21-22. Voice and Diction. 4 points. MRS. SEALS and MR. STEVICK.

M., W., and F. at 11 (I), at 1 (II), Tu. and Th. at 11 and Th. at 1 (III). [0]

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech, a pleasing voice, reasonable self-assurance, and the ability to make herself understood at all times. *Winter Session*: Drills in voice production and English phonetics with phonograph and dictaphone recordings. *Spring Session*: An intensive study of phrasing, intonation, rhythm, and stress.

Open to all students.

23, 24. Oral Interpretation of Literature. 4 points. MRS. SEALS and MISS NELBACH.

M. and W. at 2 and an hour to be arranged. [0]

The study and oral presentation of different types of English literature. *Winter Session*: Ballads, lyrics, dramatic verse and prose. *Spring Session*: Practical experience in story telling, in choral reading, and in radio work.

[25-26. Speech Correction. 6 points. PROFESSOR DEYRUP and MR. STEVICK.

Not given in 1951-52.]

The study of speech faults resulting from psychological and physiological causes. The third hour will be devoted to correction of specific speech problems of each student and to clinical work. Full-year course.

Open to juniors and seniors on written permission of the instructor,

27, 28. Public Speaking. 4 points. DR. MARLATT.

W., 3-5. [0]

Training in the delivery of prepared and extemporaneous speeches and in leading and participating in panel and round-table discussions. Techniques of argumentation and debate. Analysis of important speeches. Parliamentary procedure.

Open to all students.

Wigs and Cues, the college dramatic club, offers practical training and experience in speech, acting, and directing.

The local radio station WKCR offers to those students interested in radio announcing and acting opportunity for experience in these fields.

LANGUAGE AND LITERATURE

35, 36. Introduction to English Literature. 6 points. PROFESSOR ROSENBERG.

M., W., and F. at 9. [1]

A general view of the scope and variety of English literature through a study of selected writers and works, from the beginnings to the present. Lectures, readings, discussions. *Winter Session*: Beowulf through Dryden. *Spring Session*: 1700 to the present.

This course is designed for students who are not majoring in English. It cannot be credited towards the 28 points required of a major.

43, 44. Medieval Literature. 8 points. PROFESSOR GREET and MISS NELBACH.

Tu. and Th., 9-11. [6]

The language and literature of England in the Middle Ages as a part of our cultural inheritance. *Winter Session*: Chaucer's *Canterbury Tales* and *Troilus and Criseyde*. *Spring Session*: An introduction to Anglo-Saxon, including source materials of early English history and the lyric poems.

[45. The Beowulf. 3 points.

Not given in 1951-52.]

[46. Chaucer's Contemporaries. 3 points.

Not given in 1951-52.]

Poetry and prose of the fourteenth century, including *Pearl*, *Gawain and the Green Knight*, *Piers Plowman*, selections from John Wiclif and others.

Prerequisite: *Course 43*.

47, 48. History of the English Language. 6 points. PROFESSOR GREET.*English 47:* Tu., 3-5 and Th. at 3. [13]*English 48 will not be given in the Spring Session 1952.*

This course is designed to give the scholarly background that is necessary for studies in English usage, oral and written. After an introduction to the phonetics of English, the class considers the history of words, pronunciation, and structure in the light of literary tradition and linguistic science.

Prerequisite: *Course 43 or 44.*

52. Development of English Drama from its Beginnings to 1642. 3 points. MISS MANDEVILLE.

M., W., and F. at 10. [2]

Miracle plays, moralities, and interludes, Senecan tragedies, Marlowe, Ben Jonson, and the Jacobean drama.

53. English Drama of the Restoration and the Eighteenth Century. 3 points. PROFESSOR HOOK.

M., W., and F. at 10. [2]

A study of the comedy of manners, heroic tragedy, sentimental comedy, ballad opera, bourgeois and romantic tragedy.

57. Drama from Ibsen to the Present. 3 points. MISS GILDER.

Th., 2-4. [13]

Reading of English, continental, and American plays, of which the most important will be analyzed in class; playgoing, on and off Broadway.

58. Contemporary American Theatre. 3 points. MISS GILDER.

Th., 2-4. [13]

A continuation of the work of *Course 57* with emphasis on the theatre's relation to the community: its functioning as an art and an industry.

Prerequisite: *Course 57* or permission of the instructor.

61, 62. Shakespeare. 6 points. PROFESSORS ROBERTSON and HOOK.

M., W., and F. at 1. [4]

An introduction to the meaning, scope, and greatness of Shakespeare. The sonnets and all the plays are read in the course of the year, though only the more important are studied in class.

Course 61 is prerequisite to *Course 62*.

65. Spenser and Sixteenth Century Poetry. 3 points. PROFESSOR ROSENBERG.

M., W., and F. at 2. [5]

Study of the chief lyrists of the period, their themes, forms, and theories of poetry.

66. Milton and Seventeenth Century Poetry. 3 points. PROFESSOR ROSENBERG.

M., W., and F. at 2. [5]

The complete poetical works of Milton, with supplementary readings. Some study of Donne and the Metaphysicals.

67, 68. English Literature of the Eighteenth Century. 6 points. PROFESSOR NICOLSON and MR. ULANOV.

Tu. and Th. at 3 and F. at 2. [13]

On Tu. and Th. the class will attend Professor Nicolson's lectures in the graduate school course, *English 213, 214*. The F. session will be a discussion group at Barnard.

The principal authors from Dryden to the end of the eighteenth century, studied in relation to the thought of the period. *Winter Session:* Dryden, Swift, and Pope. *Spring Session:* Dr. Johnson and his circle, and the pre-Romantics.

69, 70. The English Novel. 6 or 8 points. MRS. BARACH.

M., W., and F. at 10. [2]

Studies in the development of the novel in England from the eighteenth century to our own time. *Winter Session*: Pioneers of the eighteenth century such as Defoe, Richardson, Fielding, Sterne, contrasted with such modern pioneers as Joyce and Lawrence. *Spring Session*: The nineteenth century to today: Austen, Scott, Dickens, Thackeray, Trollope, Meredith, Conrad, Virginia Woolf, and others. Students who wish to read for the course in advance may obtain a list of titles from the instructor.

71, 72. English Literature of the Romantic Period. 6 points. PROFESSOR MCGUIRE.*English 71*: Tu. at 2 and Th., 2-4. [9]*English 72 will not be given in the Spring Session 1952. See English 91.*

A study of the poetry of the age, chiefly in the light of contemporaneous theories of poetry and of present-day criticism. *Winter Session*: Blake, Wordsworth, and Coleridge. *Spring Session*: Byron, Shelley, Keats, and romantic prose.

74. Victorian Poets. 4 points. PROFESSOR ROBERTSON.

M., W., and F. at 11 and Th. at 1. [3]

A study of poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. *Courses 74 and 76 are ordinarily given in alternate years.*

[76. The Victorian Age in Literature. 4 points. PROFESSOR ROBERTSON.*Not given in 1951-52.]*

Literary expression of tendencies in the thought of the period—social, scientific, religious, and artistic. Among the writers considered are Dickens, Thackeray, Carlyle, Ruskin, and Pater.

*Courses 74 and 76 are ordinarily given in alternate years.***79, 80. American Literature from the Colonial Period to the Present Day.** 6 points.PROFESSOR TILTON. *Given alternate years.*

Tu. and Th. at 10 and Th. at 3. [7]

Winter Session: Jonathan Edwards to Walt Whitman. *Spring Session*: Mark Twain to William Faulkner.

81. Major American Writers. 3 points. PROFESSOR KOUWENHOVEN.

M., W., and F. at 9. [1]

The work of Emerson, Hawthorne, Melville, and Whitman.

Prerequisite: *Course 79* or written permission of the instructor.**84. Modern Poetry and the Allied Arts.** 3 points. MR. ULANOV.

Tu. and Th. at 11 and Th. at 1. [8]

The focus and the vocabulary of the modern artist, examined and defined first in terms of poetry, and then through a comparison of poetry, painting, music, the dance, the theatre, and the motion picture. Gallery trips and record-listening will be required.

86. The Arts in American Civilization. 3 points. PROFESSOR KOUWENHOVEN.

M., W., and F. at 9. [1]

The development of two distinct traditions of design in America, one derived from Western European sources and the other from the immediate experience of a people living under democratic institutions in a machine economy. The interaction of these two traditions will be traced in architecture, painting, literature, and music, with some reference to such "new" arts as comic strips and movies.

Written permission of the instructor required.

[87. The Legend of America. 3 points.*Not given in 1951-52. Will be given in 1952-53.]*

Foreign conceptions of some of America's basic literary and cultural traditions.

91, 92. Special Reading. 6 points. PROFESSORS ROBERTSON, MCGUIRE, HOOK, and TILTON.

Tu., 3-5. [0]

Under the immediate guidance of an instructor every student plans and follows a program of reading

which will supplement and coördinate her work in other courses. Each section becomes a literary group engaged in writing and discussing critical essays.

Recommended for major students, especially seniors who are preparing for Part III of the major examination. Registration in each section is limited.

93, 94. The English Conference. 2 points. PROFESSORS GREET and KOUWENHOVEN and MR. ULANOV.

Th. at 4. [0]

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors.

This course is required of all English majors in both junior and senior years. It is not open to other students.

FINE ARTS

MARION LAWRENCE, Ph.D., Professor of Fine Arts,

Executive Officer

WILLIAM BELL DINSMOOR, Litt.D., Professor of Archaeology, Columbia University

JULIUS S. HELD, Ph.D., Associate Professor of Fine Arts

JANE GASTON-MAHLER, Ph.D., Assistant Professor of Fine Arts

MARIANNA BYRAM, A.M., Associate in Fine Arts

JOHN H. PLUMMER, A.B., Instructor in Fine Arts

A major in fine arts. Students majoring in fine arts will be required to take:

Fine Arts 97-98 and other fine arts courses in the following fields: ancient, medieval, renaissance, baroque, and modern. They are strongly recommended also to take some work in the oriental field.

Other fields. A reading knowledge of French, German, or Italian. Students planning to do graduate work must have German and one other modern language. Courses in history, literature, languages, philosophy, or other fields which will vary with the special interest of the student are advisable and should be arranged in consultation with the major department.

FINE ARTS

1-2. Introduction to the Study of Fine Arts. 4 or with laboratory, 6 points. PROFESSOR LAWRENCE.

Tu. and Th. at 10 and, for 6 points, Th., 2-4. [7]

A general study of esthetic problems as preparation for a more detailed study of the fine arts. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting together with a consideration of the art as characteristic of certain great periods of European culture. Short papers will be assigned on buildings, sculpture, and paintings in New York City.

Laboratory work: drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

Intended primarily for freshmen and sophomores but open to new transfers, and to juniors and seniors on written permission of the department.

41. Introduction to Ancient Art. 3 points. MR. PLUMMER.

M., W., and F. at 1. Conferences and visits to the Metropolitan Museum of Art, F. at 1 or at hours to be arranged. [4]

After a brief discussion of the stone ages, the architecture, sculpture, and painting of the preclassical civilizations of the eastern Mediterranean—Egypt, Mesopotamia, and the Aegean—and of the classical styles of Greece and of Rome are analyzed in detail, with some reference to their Persian and Etruscan offshoots.

Open to all except freshmen. **History 5, 6* is recommended as a parallel course.

51, 52. Medieval Art. 6 points. PROFESSOR LAWRENCE.

M., W., and F. at 2. Conferences and visits to the Metropolitan Museum of Art, F. at 2 or at hours to be arranged. [5]

An introductory study of the origin and development of Christian art in Europe through the early Christian, Byzantine, Carolingian, Romanesque, and Gothic periods. In the first semester the emphasis is on the development of style and iconography, especially as illustrated by mosaics and illuminated manuscripts. In the second semester special attention will be given to the Romanesque and Gothic architecture and sculpture of France.

Open to juniors and seniors. **History 7, 8* is recommended as a parallel course.

Course 51 is prerequisite to *Course 52*.

[62. Italian Renaissance Sculpture. 3 points. PROFESSOR LAWRENCE.

Not given in 1951-52.]

The historical development of Italian sculpture from the late medieval period through Bernini. Special attention will be given to the genius of the Renaissance as expressed in the work of Donatello and Michelangelo.

Open to juniors and seniors and to sophomores who have had *Course 65*.

65. Italian Renaissance Painting. 3 points. PROFESSOR HELD.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art. [8]

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian.

Open to all except freshmen.

66. Renaissance Painting in Northern Europe. 3 points. PROFESSOR HELD.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art. [8]

The history and development of painting in the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis will be put on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald.

Open to all except freshmen.

[68. Prints and Drawings. 4 points. MISS BYRAM.

Not given in 1951-52.]

The history and technique of the graphic arts as illustrated in the work of the principal artists from the beginning of the fifteenth century to modern times.

Prerequisite: *Course 65* or *66* or *75, 76*.

69. European Architecture and Sculpture from the 15th Century Through the 17th Century. 3 points. MISS BYRAM.

M., W., and F. at 10. Conferences and visits to the Metropolitan Museum of Art, F. at 10 or at hours to be arranged. [2]

Starting with the Italian Renaissance the course will cover the important developments of the 15th through the 17th centuries, in European architecture and sculpture, stressing particularly developments in Italy, Spain, France, and England.

70. European and American Architecture and Sculpture from the 18th Century into the 20th Century. 3 points. MISS BYRAM.

M., W., and F. at 10. [2]

Starting with the 18th century the first two-thirds of the course will be devoted mainly to France, Germany, and England. The last third of the course will deal with American architecture and sculpture from the 18th century to the present.

[71. Architecture and Sculpture since the Renaissance. 3 points. MISS BYRAM.

Not given in 1951-52.]

The first part of the course will be devoted to the main architectural developments from the Italian

Renaissance to the present day. The last part of the course will be a study of the significant achievements in the field of sculpture from the sixteenth century to modern times.

Open to all except freshmen.

75, 76. European Painting since the Renaissance. 6 points. PROFESSOR HELD and MR. PLUMMER.

Tu. and Th. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art. [9]

The development of painting in Europe from the sixteenth century to the present with emphasis on those trends which are most significant in the evolution of modern painting. The artists to whom special attention will be given are Michelangelo, Tintoretto, El Greco, Velasquez, Rubens, Poussin, and Rembrandt; Watteau, David, Delacroix, Daumier, the Impressionists, Cézanne, Van Gogh, and subsequent modern trends.

Open to all except freshmen. *Course 75* is prerequisite to *Course 76*.

[78. American Painting. 2 points. DR. GOLDWATER.

Not given in 1951-52.]

The development of painting in America from the eighteenth and nineteenth centuries to the present day with special emphasis on the contemporary period.

Open to all except freshmen.

91, 92. Oriental Art. 6 points. PROFESSOR GASTON-MAHLER.

M., W., and F. at 11. Conferences and visits to the Metropolitan Museum of Art, F. at 11 or at hours to be arranged. [3]

The first semester will deal with the arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting and frescoes, and minor arts. The second semester will be concerned primarily with the arts of China and Japan, with attention given to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period will be stressed; while in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints will be studied.

Open to all except freshmen.

97-98. Seminar for Majors. 6 points. PROFESSOR LAWRENCE assisted by the other Members of the Department.

Tu., 3-5. [0]

Special work planned in each case to supplement and coördinate the student's other courses in fine arts and to provide an opportunity for the study of basic principles as well as specific problems in a chosen field.

Required of all majors in their senior year.

TECHNICAL COURSES

Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts. Fine Arts majors may credit a maximum of 12 points of studio work.

G.S. Drawing 1-2. The Grammar of Art. 4 points. PROFESSOR MANGRAVITE assisted by MR. MULLEN and MISS HEUSSER.

M. and Th., 3-5 (II), Tu. and Th., 3-5 (III). East Hall.

Drawing and painting. Orientation of the student to art as a language. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts. Through personal supervision, the student is guided in the practice of drawing and painting.

Course 1 is prerequisite to *Course 2*, except on written permission of the instructor. Special fee, \$40 each session and model fee, \$6 each session.

Other studio courses given at Columbia University may be taken by written permission of the department upon payment to Barnard of additional fees. Junior and senior Fine Arts majors are exempt from these fees. These courses are described in the Announcement of the School of General Studies under Painting and Sculpture.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following are specially recommended as suitable for Barnard seniors:

- *Fine Arts 121. Primitive Art and Its Contribution to Modern Art. PROFESSOR WINGERT. 3 points.
- *Fine Arts 135. Ancient Art of Egypt and the Near East. PROFESSOR DINSMOOR. 3 points.
- *Fine Arts 144. Greek Art. PROFESSOR DINSMOOR. 3 points.
- *Fine Arts 146. Roman Art. PROFESSOR SWIFT. 3 points.
- *Fine Arts 154. Architecture of the Middle Ages. PROFESSOR SWIFT. 3 points.
- *Fine Arts 163. Florentine Painting of the Early Renaissance. PROFESSOR MEISS. 3 points.
- *Fine Arts 164. Italian Painting of the Early Renaissance Outside Florence. PROFESSOR MEISS. 3 points.
- *Fine Arts 167. Dutch and Flemish Painting of the Fifteenth and Sixteenth Centuries. PROFESSOR MEISS. 3 points.
- *Fine Arts 171. Art of the Baroque Period. PROFESSOR HELD. 3 points.
- *Fine Arts 172. Modern Architecture. PROFESSOR SWIFT. 3 points.
- *Fine Arts 175. Modern Painting from c.1848 to 1900. PROFESSOR SCHAPIRO. 3 points.
- *Fine Arts 179. American Art. PROFESSOR UPJOHN. 3 points.
- *Fine Arts 191. The Art of the Near and Middle East. PROFESSOR GASTON-MAHLER. 3 points.
- *Fine Arts 192. The Art of the Far East. PROFESSOR GASTON-MAHLER. 3 points.

FRENCH

FRÉDÉRIC G. HOFFHERR, B. ès L., Professor of French,
Executive Officer

¹JEANNE V. PLEASANTS, Associate Professor of French
 ANDRÉ MESNARD, A.M., Assistant Professor of French
 ISABELLE DE WYZEWA, Ph.D., Assistant Professor of French
 HELEN PHELPS BAILEY, Ph.D., Assistant Professor of French
 ALICE R. BENNETT, A.M., Instructor in French
 HELEN CARLSON, A.M., Lecturer in French
 LINETTE W. FISHER, A.M., Lecturer in French
 TATIANA GREENE, A.M., Lecturer in French
 ANTOINETTE NOEL HOFFFHERR, A.M., Lecturer in French
 EVE DANIEL, Assistant in French

¹ Officer of Columbia University giving instruction in Barnard College.

A major in French. Unless they receive special permission from the department, students majoring in French will be required to take:

French. Courses 7, 8 (8 points), *41, 42; 15, 16 or 17, 18; 21-22* and at least two of the literature courses dealing with the most important periods of French literary history (XVIth, XVIIth, XIXth, XXth centuries) and other courses to be arranged in consultation with the department. Only two courses in the intermediate group may be counted in the major. The introductory language courses, *1-2, 3, 4, R4*, cannot so count.

Other fields. Courses which will vary with the special interest of the student and should be arranged in consultation with the major department.

INTRODUCTORY COURSES

1-2. Introductory Full-Year Course. 8 points. PROFESSOR MESNARD and MISS FISHER.
M., Tu., W., Th., and F. at 9 (I); M., Tu., W., Th., and F. at 11 (II). [14]
Grammar, reading, composition.

3, 4. Intermediate Course. 6 points. MRS. GREENE and MRS. HOFFHERR.
M., W., and F. at 1 (I), at 2 (II); Tu., Th., and S. at 9 (III) and (IV). [14]
Review of grammar and syntax. Translation from and into French, reading, oral practice, free composition.
Prerequisite: *Course 1-2* or two years of high school French.

R4. Intermediate Course. Part II. 3 points. MISS BENNETT and MRS. GREENE.
M., W., and F. at 10 (I), at 2 (II). [14]
The equivalent of *Course 4* but given in the winter session.
Prerequisite: *Course 3* or three years of high school French.

5, 6. Discussion and Composition Based on Readings in Modern French Literature, with Occasional Practice in Translation. 6 points. PROFESSOR MESNARD, MISS BENNETT, and MISS CARLSON.
M., W., and F. at 9 (I), at 11 (II), and at 1 (III). [14]
A study based on prose and poetry of the nineteenth and twentieth centuries. Discussion in French of texts read. Free composition and grammar review. Practice in both intensive and extensive reading.
Prerequisite: *Course 3, 4* or three years of high school French.

R5. Conversation and Composition Based on Readings in French Literature, with Occasional Practice in Translation. 3 points. MRS. GREENE.
M., W., and F. at 2. [5]
The equivalent of *Course 5* but given in the spring session.
Prerequisite: *Course 4* or *R4*.

5x, 6x. Practical Course in Sight Reading and Prepared Translation. 6 points. MISS BENNETT, MRS. GREENE, and MISS FISHER.

M., W., and F. at 9 (I), at 10 (II), at 11 (III), at 1 (IV). [14]
Texts chosen to develop ease and accuracy in handling a variety of styles and subjects: historical, philosophical, artistic, scientific, as well as literary prose. Especially intended for students wishing to prepare for the foreign language test in French and majors in other subjects who need to understand and translate French texts for reference purposes.
Prerequisite: *Course 3, 4* or three years of high school French.

LANGUAGE COURSES¹

9, 10. Review of Grammar and Composition. 4 or 6 points. PROFESSOR MESNARD.

Tu. and Th. at 10. [7]

Intended primarily for those registered in literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions.

Open to students of all classes on written permission of the instructor. Limited to 10 students.

11, 12. French Phonetics. 6 points. PROFESSOR PLEASANTS.

M., W., and F. at 1. [4]

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature.

Open to students only on written permission of the instructor. Limited to 20 students.

[15, 16. Advanced Composition. 4 or 6 points. PROFESSOR MESNARD.

Not given in 1951-52.]

Translation of English texts into French, weekly themes, periodical reports on outside reading.

Open to qualified students with the written permission of the department. Limited to 15 students.

[17, 18. Advanced Translation and Composition. 6 points. ———.

Not given in 1951-52.]

Translation from French into English and from English into French. Composition, preparation of critical essays and articles on a variety of subjects assigned.

Open only on written permission of the instructor.

19-20. Oral French, Intermediate Full-Year Course. 4 points. MISS FISHER.

M. and W. at 1 (I), at 2 (II), and a conference period to be arranged.

Pronunciation, recitation, conversation based on selected readings.

Limited to 12 students each section. Prerequisite: *Course 5* or the equivalent and the written permission of the department.

[41-42. Oral French, Advanced Full-Year Course. 4 points. ———.

Not given in 1951-52.]

Discussion based on contemporary French readings, reports on assigned subjects, practice in the recitation of lyric prose and poetry.

Limited to 10 students. Prerequisite: *Course 19-20* or the equivalent and the written permission of the instructor.

[41a-42a. Oral French, Advanced Full-Year Course. 4 points. MRS. DANIEL.

Not given in 1951-52.]

Diction, recitation. Dramatic interpretation of classical and modern plays. Each student in the course will be assigned a part in a play to be performed at the end of the semester.

Limited to 10 students.

Prerequisite: the written permission of the department.

LITERATURE COURSES

Students are reminded that the ability to use French both in speaking and in writing is considered a general requirement for all literature courses.

7, 8. Masterpieces of Literature from the Medieval Period to the Twentieth Century.

PROFESSORS DE WYZEWA, BAILEY, MESNARD, and MRS. HOFFHERR.

8 points: Lecture, Th. at 1 and class meetings, M., W., and F. at 11 (III). This course is required of students majoring in French and may be counted toward the major.

Or 6 points: Class meetings only, M., W., and F. at 9 (I), at 10 (II), and at 1 (IV),

¹ All courses are conducted entirely in French.

with modified requirements in reading and composition. Students who may subsequently wish to count the 6 points toward a French major may do so by additional work equivalent to 2 extra points. [14]

Lectures in French on the history of French literature, on French art and history, recitations, discussions. The students write essays and reports on outside reading. Conducted in French.

Prerequisite: a grade of at least B in *Course 4* and the written permission of the department or a high rating in three years of high school French.

[13, 14. The Regional French Novel. 4 or 6 points. MISS BENNETT.

Not given in 1951-52.

A study of the life and art of several French provinces based on recent novels.

Open to juniors, seniors, and qualified sophomores on written permission of the instructor. Limited to 15 students.

21-22. French Literature in the Seventeenth Century. 6 or 8 points. PROFESSOR HOFFHERR.

M., W., and F. at 10. [2]

A study of the most significant works of the principal writers of the period with special emphasis on the French Classical Drama.

23, 24. French Literature in the Nineteenth Century. 6 or 8 points. PROFESSOR BAILEY.

M., W., and F. at 11. [3]

Representative works of the principal authors and literary movements from early Romanticism through Symbolism.

Open to juniors and seniors on written permission of the instructor.

25, 26. History of the French Novel. 6 points. PROFESSOR DE WYZEWA.

M., W., and F. at 1. [4]

A study of the development of French culture, thought, ideals, and literary technique as reflected in the most representative novels of each period, from the Middle Ages to the present.

Open to juniors, seniors, and qualified sophomores on written permission of the instructor.

[27, 28. History of the French Drama. 4 or 6 points. PROFESSOR HOFFHERR.

Not given in 1951-52.

General survey of the development of the French drama from its origin to the present time; the most representative plays of the different periods.

31, 32. French Literature in the Middle Ages and the Renaissance. 6 points. MISS BENNETT.

M., W., and F. at 1. [4]

Study of selected works of literature, with reference to the history and art of the respective periods.

33, 34. History of French Civilization. 4 or 6 points. PROFESSOR HOFFHERR.

M. and W. at 11. [3]

General survey of the development of French civilization from the Roman conquest to the Revolution; the political, artistic, literary, and scientific activities of the French people in the formation of their national life and their contribution to human progress.

Open to juniors, seniors, and qualified sophomores, and to freshmen on written permission of the instructor.

[34a. History of French Civilization from the Revolution to Modern Times. 2 points. PROFESSOR MESNARD.

Not given in 1951-52.

The political, artistic, literary, and scientific activities of the French people in the formation of their national life and their contribution to human progress.

Prerequisite: *Course 33, 34* or the equivalent.

[35, 36. French Literature in the Eighteenth Century. 6 points. PROFESSOR DE WYZEWA.

Not given in 1951-52.

The chief essayists, novelists, and dramatists of the period in their most significant works and letters.

Prerequisite: *Course 21-22* or the written permission of the department.

39-40. Special Reading Seminar. 4 or 6 points. MISS BENNETT.

M. and W. at 2. [5]

Intended primarily for French majors. Students will be given a program of supervised reading, which will help them to coördinate their work in other French courses.

[125. Contemporary French Literature. 3 or 4 points.

Not given in 1951-52.

Three predecessors of contemporary French poetry: Gérard de Nerval, Ch. Beaudelaire, and A. Rimbaud. Analysis of significant works.

Open to qualified seniors on written permission of the instructor.

GEOLOGY AND GEOGRAPHY

HENRY S. SHARP, Ph.D., Professor of Geology,

Executive Officer

FLORRIE HOLZWASSER, Ph.D., Associate Professor of Geology

WILLIAM F. GOODWIN, JR., A.M., Instructor in Geography

A major in geology. Students majoring in geology are required to take *Geology 1-2, 7, 15, 19, and 28*, or their equivalent. The remaining points for the major may be selected from the offerings of this Department, the Columbia Department of Geology, or up to 6 points in a non-geologic science may be counted toward the major. In any case, majors planning to do graduate work in geology are expected to take courses in related fields of science; the science programs of other majors are adjusted to the interest and purpose of the student. All majors in geology are urged to take well-balanced programs in the humanities and social sciences, and by their senior year to take a field course, such as *Geology 5179—Geology of the Rocky Mountains*—offered in Wyoming each summer by Columbia University.

A major in geography. Students majoring in geography are required to take *Geography 1*, for which, however, under certain circumstances *Geology 1* or *General Physical Science* may be substituted. Other required courses counting toward the major are *Geography 10, 12*; two terms of work from among *Geography 3, 5, 15-16*; and *Geology 28 or 28a and 133 (Cartographic Techniques, Professor Lobeck)*. The remaining courses for the major will depend in part upon the interests of the student and are to be selected in consultation with the major adviser from among the offerings of the Department, or *Anthropology 17, Botany 50, Economics 17, 32, and Sociology 33*. Majors should ordinarily satisfy the contemporary civilization requirement by *Economics 1-2* or *Sociology 1-2*, and select their elective and required courses to correlate with their geographic interests so far as possible.

Natural Resources. A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Majors.

GEOGRAPHY

1-2. Physical and Economic Geography. 6 points. PROFESSOR HOLZWASSER.

Tu. and Th. at 9 and Th. at 1. [6]

Study of maps and map projections; consideration of man's geographic background—weather, cli-

mate, oceans, and landforms; his adaptation to this background and his utilization of natural resources.

Intended to be of use to students of history, economics, sociology, and to others wishing to gain some knowledge of environment as a guide to better understanding in their own major field.

This course fulfills the contemporary society requirement.

3. The Geography of South America. 3 points. PROFESSOR HOLZWASSER.

M., W., and F. at 10. [2]

A study of the position, climate, relief, and natural resources of the continent and its constituent countries. This course should be of value to students in any way interested in South America.

[5. The Physical and Economic Structure of Europe. 3 points. MR. GOODWIN.

Not given in 1951-52.

A study of the position, climate, relief, and natural resources of Europe and the economic development of its constituent countries. This course should prove of value to students of European history and government or those otherwise interested in the continent.

Given in alternate years.

7. Principles of Political Geography. 3 points. MR. GOODWIN.

M., W., and F. at 11. [3]

A study of the basic principles of political geography; readings and discussion of the standard works in the field. Applications of the principles by examination of critical areas of the world.

Given in alternate years.

10. Weather and Climate. 3 points. PROFESSOR HOLZWASSER.

M., W., and F. at 10. [2]

The fundamentals of modern meteorology: the atmosphere, its composition, height, and properties; temperature, pressure, humidity, and related weather elements; atmospheric circulation; climates of the earth. Brief reference to problems of water supply, floods, and soil erosion.

12. Natural Resources: Their Use and Misuse. 3 points. MR. GOODWIN.

M., W., and F. at 11. [3]

A systematic investigation into the availability, use and misuse of resources, the rôle of economics and politics in determining their utilization, and the social implications of our resource policy. Several voluntary field trips.

15, 16. Regional Economic Geography of North America. 6 points. MR. GOODWIN.

M., W., and F. at 1. [4]

A study of the areal distribution of population and industry in North America. The trends in the changing pattern of economic activity and an analysis of the forces stimulating them are stressed. Several voluntary field trips. *Winter Session*: Eastern North America. *Spring Session*: Western North America.

This course fulfills the contemporary society requirement.

GEOLOGY

Under exceptional circumstances juniors and seniors may use General Physical Science as a prerequisite for some geology courses.

1. Physical Geology. 4 points. PROFESSOR SHARP, MR. GOODWIN, and MISS JAHN.

Lectures: Tu. and Th. at 11 and Th. at 1.

Laboratory (2 hours): Tu., 9-11, Tu., 2-4, W., 3-5, Th., 2-4. [8]

Courses 1 and 2 are planned to give students knowledge of the earth as the most important physical factor in their background. *Course 1* covers the composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. The laboratory includes several field trips, study of common rocks and minerals, and intensive study of contour maps as means of depicting topography. *Course 1* makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. Those wishing to become familiar with topographic maps are also advised to take this course.

With *Course 2* it satisfies the laboratory science requirement.

Any laboratory section with less than ten students may be cancelled.

1a. Physical Geology. 3 points. PROFESSOR SHARP.

Tu. and Th. at 11 and Th. at 1. [8]

Lectures identical with those of *Geology 1*. No laboratory work. To follow or parallel a laboratory science. Should not be elected by students expecting to take further work in geology. Several outside assignments.

2. Historical Geology. 4 points. PROFESSOR SHARP, MR. GOODWIN, and MISS JAHN.

Lectures: Tu. and Th. at 11 and Th. at 1.

Laboratory (2 hours): Tu., 9-11, Tu., 2-4, W., 3-5, Th., 2-4. [8]

Important steps in the history of the earth and of the life upon it from the beginning to modern times are emphasized. The laboratory includes a Planetarium visit, study of invertebrate fossils and of geologic maps and structures, museum trips for the study of vertebrate fossils, short field trips, and, if conditions permit, a required Saturday field trip.

Prerequisite: *Course 1*.

Any laboratory section with less than ten students may be cancelled.

2a. Historical Geology. 3 points. PROFESSOR SHARP.

Tu. and Th. at 11 and Th. at 1. [8]

Lectures identical with those of *Geology 2*. No laboratory work. Prerequisite: *Course 1* or *1a*. To follow or parallel a laboratory science. Should not be elected by students expecting to take further work in geology. Several outside assignments.

***A11. Elements of Mineralogy. 3 points. PROFESSOR HOLMES.**

Tu. and Th. at 11 and Tu., 2-4.

The sight recognition and uses of the common minerals. Laboratory work in the identification of minerals by their physical properties and by simple chemical and blowpipe methods. Emphasis on minerals of economic importance and widespread occurrence.

15. Paleontology. 3 points. PROFESSOR HOLZWASSER.

Lectures: Tu. and Th. at 10.

Laboratory: Th., 2-4. [7]

The study of selected fossil specimens from all major geologic epochs and from most divisions of the plant and animal kingdoms. The principles of evolution and scientific nomenclature and the development of man's knowledge of plants and animals of the past.

16. Advanced Historical Geology. 3 points. PROFESSOR HOLZWASSER.

Tu. and Th. at 10 and a third hour to be arranged. [7]

A study of the Paleozoic and/or later geologic history of selected regions.

Prerequisite: *Courses 1* and *2*.

[19. Structural Geology. 3 points. PROFESSOR SHARP.

Not given in 1951-52.]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips.

Prerequisite: *Courses 1* and *2* or the equivalent. *Courses 19* and *27* are ordinarily given in alternate years.

26. Topographic Divisions of Europe. 4 points. PROFESSOR SHARP.

M. at 2 and W., 2-4. [5]

Lectures, map study, and readings on the topographic regions of Europe. This course is intended for students interested in the regional aspects of geology and geography and should also be of value to students interested in any aspect of European civilization or travel.

Prerequisite: *Courses 1* and *2*; may be taken concurrently with *2*. Not open to freshmen. With the instructor's permission juniors and seniors may take this without *Course 2*. Alternates with a similar course on the United States.

27. The Origin of Landforms. 3 points. PROFESSOR SHARP.

M. at 2 and W., 2-4. [5]

Lectures, map study, and readings on the principles of geomorphology. The origin and evolution

of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. One or more voluntary field trips.

Prerequisite: *Courses 1 and 2* or the equivalent. *Courses 19 and 27* are ordinarily given in alternate years.

[28. (also *Geology 132.) Topographic Divisions of the United States. 4 points. PROFESSOR SHARP.

Not given in 1951-52.]

Lectures, map study, and readings on the 25 fundamental natural regions of the United States. This course should be of value to students majoring in government, history, economics, the natural sciences, and others wishing to understand the regional aspects of the United States, or expecting to travel within its boundaries. One or more voluntary field trips.

Prerequisite: *Courses 1 and 2*; may be taken concurrently with 2. With the instructor's permission juniors and seniors may take this without *Course 2* or with General Physical Science as a prerequisite. Alternates with a similar course on Europe.

Open to qualified graduate students having the instructor's permission.

[28a. Topographic Divisions of the United States. 3 points. PROFESSOR SHARP.

Not given in 1951-52.]

Lectures and readings identical with those of *Geology 28*, but no map reports are required.

30. Advanced Physical Geology. 3 points. PROFESSORS SHARP and HOLZWASSER.
Th., 3-5. [13]

A seminar course with discussions, problems, and readings on various topics in geology.

Prerequisite: *Courses 1 and 2 and 19 or 27*. Open to juniors and seniors.

GERMAN

HUGH WILEY PUCKETT, Ph.D., Professor of German,
Executive Officer

LOUISE G. STABENAU, A.M., Associate in German

ALFRED WILHELM INTEMAN, A.M., Lecturer in German

A major in German. Students majoring in German will be required to take:

German. *Courses 9, 10, 36, 45, 46, 51* and other courses to be arranged in consultation with the department.

Other fields. Courses which will vary with the special interest of the student and must be arranged in consultation with the major department.

INTRODUCTORY COURSES

1-2. Beginners' Full-Year Course. 6 points. MRS. STABENAU and MR. INTEMAN.
M., W., and F. at 9 (I), and at 11 (II). [15]

Elements of grammar, easy reading, written and oral practice.

01-02. Oral Practice. 2 points. MRS. STABENAU and MR. INTEMAN.

Tu. and Th. at 9 (I) and at 11 (III). [0]

Conversation as extension of the work in *Course 1-2*.

Open also to students in *Course 3, 4* and, by special permission, to students in other German courses.

3, 4. Intermediate Course. 6 points. MRS. STABENAU and MR. INTEMAN.
M., W., and F. at 9. [1]

Rapid reading of texts, with practice in writing and speaking German.

Prerequisite to *Course 3, Course 1-2* or two years of high school German.

Prerequisite to *Course 4, Course 3*, or three years of high school German.

3a, 4a. Intermediate Reading Course. Scientific German. 3 points. PROFESSOR PUCKETT.
M., W., and F. at 1. [4]

Prerequisite to *Course 3a, Course 1-2* or two years of high school German.
Prerequisite to *Course 4a, Course 3a*, or three years of high school German.

LANGUAGE AND LITERATURE COURSES

5, 6. Lessing, Goethe, and Schiller. 6 points. PROFESSOR PUCKETT.
M., W., and F. at 10. [2]

Although the course emphasizes literary appreciation rather than practice in the language, considerable opportunity is offered in the discussions for such practice.

Prerequisite for *Course 5, Course 4* or a high grade in three years of high school German. Prerequisite for *Course 6, Course 5* or the written permission of the instructor. *Course 5, 6* is recommended as preparation for more advanced courses in German literature.

7, 8. Advanced Translation. 6 points. MRS. STABENAU.
M., W., and F. at 11. [3]

Reading and analysis of expository prose in the fields of science, history, literary criticism, and the like.

Prerequisite to *Course 7, Course 4* or the written permission of the instructor. Prerequisite to *Course 8, Course 7* or the written permission of the instructor.

9, 10. Practice Course. 4, or on written permission of the instructor, 6 points. MRS. STABENAU and MR. INTEMANN.

Tu. and Th. at 10, and, for the third point, Th. at 1. [0]

Conversation and composition and, for the third point, outside reading.

Prerequisite: *Course 3* or a good grade in three years of high school German.

25, 26. The Drama of the Nineteenth Century. 4 or 6 points. MRS. STABENAU.
Tu. and Th. at 11 and, for the third point, Th. at 1. [8]

Prerequisite: *Course 5, 6* or *7, 8* or the equivalent.

[27. Prose Fiction of the Nineteenth Century. 2 or 3 points. PROFESSOR PUCKETT.
Not given in 1951-52.]

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

[28. The Literature of the Twentieth Century. 2 or 3 points. PROFESSOR PUCKETT.
Not given in 1951-52.]

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

[29. The German Drama since 1900. 2 or 3 points. PROFESSOR PUCKETT.
Not given in 1951-52.]

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

30. German Romanticism. 2 or 3 points. PROFESSOR PUCKETT.
W. and F. at 9 and, for the third point, Th. at 1. [1]

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

[36. Goethe's *Faust*. 2 or 3 points. PROFESSOR PUCKETT.
Not given in 1951-52.]

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

[45, 46. History of German Literature from the Earliest Times to the Nineteenth Century. 6 points. PROFESSOR PUCKETT.

Not given in 1951-52.]

Prerequisite: *Course 5, 6* or *7, 8* or the equivalent.

52. German Life and Institutions. 2 points. PROFESSOR PUCKETT and MRS. STABENAU.
Th., 2-4. [13]

The intellectual life of the German people as expressed in their literature and arts, as well as in their institutions, from the time of Frederick the Great to the present. Given in English.
Open to students of all classes.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following course is specifically recommended for qualified Barnard students who have the written permission of the instructor:

German 215. Deutsche Literatur im 20. Jahrhundert. Lectures in German. PROFESSOR PUCKETT. 3 points.

GOVERNMENT

RAYMOND MOLEY, Ph.D., LL.D., Professor of Public Law

THOMAS PRESTON PEARDON, Ph.D., Professor of Government,
Executive Officer

JANE PERRY CLARK CAREY, Ph.D., Assistant Professor of Government

MARY H. FAIRBANKS, A.M., Associate in Government

WILLIAM HENDERSON, A.M., Instructor in Government

RUTH A. ROSA, A.M., Lecturer in Russian Studies

LOUISE B. GERRARD, A.M., Lecturer in Government

JOHN B. STEWART, A.M., Lecturer in Government

A major in government. In the work of the major several kinds of interest are recognized. The lists of courses given below are arranged in accordance with these interests. It is not expected that majors will take all the courses in any of these lists. They are intended rather to help students to construct, in consultation with the adviser, a logical program both in government and in related fields.

1. For those who desire a general background in the field: *Government* 3, 4; 5, 6; 11, 12; 31, 32; *History* 1-2; 9-10; 25, 26; *Economics* 1-2; *Sociology* 1-2; *Philosophy* 91, 92; *Religion* 4, 25.

2. For those whose primary interest is in American government: *Government* 5, 6; 13; 21, 22; 23, 24; 25, 26; 27, 28; 53, 54; 63, 64; *Economics* 1-2; *History* 9-10; 47, 48; *Sociology* 1-2.

3. For those whose primary interest is in international relations and foreign governments: *Government* 3, 4; 11, 12; R15; R16; 17, 18; 19; 44; 61, 62; *History* 1-2; 25, 26; 37, 38; *Economics* 1-2; 16; *Geography* 1-2.

4. For those whose primary interest is in political theory: *Government* 3, 4; 31, 32; 65, 66; 171, 172; 175, 176; *Philosophy* 22; 61-62; 69; 91, 92; *History* 1-2; 36; 41-42; *Religion* 4; 25; *Economics* 27, 28; *Sociology* 41.

Because of the close relationship between the subject matter of history and that of government students majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history including a choice of *History* 1-2, 3-4, 9-10, 11-12, 23, 24, 25, 26, 37, 38, 45, 46, or 47, 48. When such

courses are counted toward the major in government, they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

Other social sciences. In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

See also *Other Interdepartmental Offerings*, page 68.

See also *International Relations*, page 67.

GENERAL COURSES

3, 4. An Introduction to Comparative Government. 6 points. PROFESSOR PEARDON and MR. STEWART.

M., W., and F. at 11 (I) MR. STEWART, and M., W., and F. at 2 (II) PROFESSOR PEARDON. [12]

An introduction to government in the modern world: the nature of the state and government; main stages in the development of modern government; the nature of democracy; the society of states and the search in it for international security; forces of change in contemporary politics; dictatorship and the total state; apparent trends and prospects.

Open to all except freshmen.

5, 6. An Introduction to American Government. 6 points. MRS. FAIRBANKS and MRS. GERRARD.

M., W., and F. at 9 (I) MRS. GERRARD, and at 2 (II) MRS. FAIRBANKS.

A survey of contemporary American government and public problems, including the fundamental doctrines of the American constitution, the party system, the organization and work of legislative bodies, the leadership of the executive and the process of administration, the judicial system, problems of state and local government; the functions and services of government, including control over foreign relations, banking and commerce; governmental regulation and protection of business and labor, and the promotion of public welfare.

Open to students of all classes. *Course 5* or its equivalent is prerequisite to *Course 6*.

11, 12. International Relations. 6 points. MR. HENDERSON.

Tu. and Th., 9:35-10:50. [7]

An analysis of the setting and basic factors of contemporary world politics and a study of proposals for reconstructing a stable international order.

Open to all except freshmen.

MORE SPECIALIZED COURSES

13. Contemporary American Politics. 2 or 3 points. PROFESSOR MOLEY.

Tu., 4-6. [13]

The major issues, campaigns, and personalities in our political life since 1900. Also the economic and social conflicts involved; the principles and methods of political persuasion by speeches, propaganda, personal contacts; and organization at the national and local level; and the broad economic, constitutional, philosophical, and literary background. For the third point, a paper on some notable personality in the period.

R15. The U.S.S.R. in World Affairs. 3 points. MRS. ROSA.

Tu. at 2 and Th., 2-4. [9]

A study of Soviet foreign policy as it has developed since 1917; diplomacy and Communist internationalism during the first two decades of Soviet rule; the Second World War and its aftermath; current trends.

Prerequisite: *Government 3, 4* or *History 37, 38*.

R16. The Soviet Union. 3 points. MRS. ROSA.

Tu. at 2 and Th., 2-4. [9]

An analysis of the political theory and institutions of the U.S.S.R.: the Soviet State and its revolutionary origins; the Communist Party, governmental agencies, and the "mass organizations"; the place of the individual in Soviet society; internationalism and "Soviet patriotism"; developments since World War II.

Prerequisite: *Government 3, 4* or *History 1-2*.

17. Far Eastern Political Institutions. 3 points. MR. HENDERSON.

Tu., W., and Th. at 2. [9]

This course deals mainly with government in Japan and China. After reviewing the historical background of the politics of these countries, special attention will be given to the institutional changes induced by contact with the West, to the rise of nationalism and totalitarianism, to the spread of Communism and the changes produced by World War II and its aftermath.

Open to juniors and seniors.

18. International Politics in the Far East. 3 points. MR. HENDERSON.

Tu., W., and Th. at 2. [9]

An analysis of the international politics of the Far East in contemporary times: the impact of western imperialism; Japan as a great power; nationalist movements; World War II and its aftermath.

Open to juniors and seniors.

19. (Old number 10). Contemporary English Politics and Government. 3 points. PROFESSOR PEARDON.

Th., 4-6 and conferences. [13]

A study of the principles and politics of the English cabinet system: the monarchy; cabinet and administration; parliament; the party system; problems of contemporary Britain; party policies and programs.

Prerequisite: *Government 3, 4* or *History 1-2*.

21, 22. (old number 19, 20). American Political Parties. 6 points. MRS. GERRARD.

M., W., and F. at 1. [4]

A study of the dynamics of American parties with special attention to the factors entering into the formation of public opinion, the rôle of pressure groups, and the operations of the party system.

Prerequisite: *Course 5, 6*.

[23, 24. Social Legislation. 6 points. MRS. FAIRBANKS.

Not given 1951-52.]

Methods of social control by government with special emphasis on the developing relationship of the government to social problems. The relationship of government to specific social problems such as housing, planning, social insurance, public assistance, and labor legislation.

Prerequisite: *Course 5, 6* or its equivalent.

25, 26. Constitutional Law of the United States. 6 points. PROFESSOR CAREY.

Th., 1-3 and a conference hour. [9]

An analysis of constitutional principles as developed through decisions of the Supreme Court of the United States in relation to: judicial review; federalism; powers of the President and of Congress in peace and war; civil and political rights; citizenship; the police power; due process of law; the equal protection of the laws.

Prerequisite: *Course 5, 6* or its equivalent.

27, 28. (old number 49, 50). Administration and Modern Government. 6 points. MRS. FAIRBANKS.

Tu. and Th. at 11, and conference period to be arranged. [8]

A study of the rôle of administration in modern government; controls of administration and the problems of responsibility; the civil service; centralization and decentralization of administration; the extension of administration to the international sphere, including problems of an international secretariat, an international civil service, and the practice of international conferences.

Prerequisite: *Course 5, 6* or its equivalent.

31, 32. The History of Political Thought. 6 points. MR. STEWART.

Tu. and Th. at 2 and W. at 3. [9]

A study of the main trends in political ideas from antiquity to our day.

Prerequisite: *Course 3, 4 or History 1-2.*

44. Governments of the British Dominions. 3 points. PROFESSOR PEARDON.

Th., 4:30-6:10 and a conference hour. [12]

This course deals with the political status and institutions of the British Dominions, especially Canada and Australia, but with some attention to the other members of the Commonwealth of Nations. Among the topics treated are: Dominion experience with federalism; forms of parliamentary government in the Dominions; party systems; major political problems; constitutional trends.

Open to majors in government and history.

45, 46. Special Reading. 2 or 4 points. Members of the Department.

Hours to be arranged. [0]

Study of selected books in politics and government.

This course may be taken only in connection with some other course in government and with written permission.

COURSES FOR SENIOR MAJORS

The following courses are intended primarily for senior majors in government, but may be taken by properly qualified senior majors in related fields who receive written permission from the Department of Government.

51, 52. Senior Thesis. 6 points. Members of the Department.

Hours for consultation to be arranged. [0]

Supervised preparation of a long written report on a subject to be chosen in consultation with members of the department.

Open only to a small group of qualified senior majors whose written application for admission to the course is approved by the department.

53, 54 (old number 41, 42). The Practice of Politics. 6 points. MRS. GERRARD.

Hours to be arranged. [0]

First-hand observation and study of the actual management of political campaigns and of the operation of legislative bodies and civic organizations.

Prerequisite: *Government 5, 6 and 19, 20.*

May be taken only with written permission of the instructor.

61, 62. Seminar in Comparative Government and International Relations. 6 points. MR. HENDERSON and MR. STEWART.

W., 4-6. [0]

Readings, discussion, and the preparation of papers on significant issues and trends in contemporary politics.

63, 64. Seminar in American Government. 6 points. MRS. FAIRBANKS and MRS. GERRARD.

W., 3-5. [0]

Research and written reports dealing with diverse aspects of American government.

[65, 66. Seminar in Political Theory. 6 points. MR. STEWART.

Not given in 1951-52.]

A study, with discussion and written reports, of: *Winter Session*—the cardinal principles of liberalism; *Spring Session*—the theory and problems of modern democracy.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College

to specially qualified seniors. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science. The following are specially recommended as suitable for Barnard seniors:

*Government 101, 102. **The Process of Government.** PROFESSOR WALLACE.
W., 11-1. 6 points.

*Government 143. **Governments of the British Dominions.** PROFESSOR PEARDON.
Th., 4:30-6:10. 3 points.

*Government 151, 152. **The Governments of Central Europe.** PROFESSOR FRANZ NEUMANN. 6 points.

*Government 171, 172. **Modern Ideas of the State.** PROFESSOR MACIVER.
W., 4-6. 6 points.

*Government 175, 176. **Political and Social Theory in the Context of European Institutions.** 6 points. PROFESSOR NEUMANN and others.
M., 2:10-4 and a discussion hour, Tu., 11-11:50.

GREEK AND LATIN

JOHN DAY, Ph.D., Associate Professor of Greek and Latin,
Executive Officer

¹JOHN F. C. RICHARDS, Ph.D., Assistant Professor of Greek and Latin
F. ELLENOR M. SWALLOW, Ph.D., Instructor in Greek and Latin

¹COLEMAN H. BENEDICT, Ph.D., Instructor in Greek and Latin

¹RICHMOND Y. HATHORN, Ph.D., Lecturer in Greek and Latin

¹ROBERT BENNETT HENNION, A.M., Lecturer in Greek and Latin

In cooperation with the Department of Greek and Latin in Columbia University, certain courses (Greek 19-20, 29-30; Latin 19-20, 29-30) are offered in combination with Columbia courses, by Columbia instructors; other courses (Latin 4; Latin 25) are offered at Barnard College by a Columbia instructor.

A major in Greek, or in Latin, or in Greek and Latin combined. Courses may be counted toward these majors as follows:

Major in Greek. Any courses in Greek and 4 points in archaeology or classical civilization or Greek history may count.

Major in Latin. Any courses in Latin and 4 points in archaeology or classical civilization or Roman history may count.

Major in Greek and Latin combined. The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields. The work in other fields will vary with the special interest of the student and should be arranged in consultation with the major department. Students will find it profitable to take courses in Greek history, or in Roman history, or in

¹ Officer of Columbia University giving instruction in Barnard College.

both (*History 5, 6, 13, 14, 15, 16*). A reading knowledge of French and German is advised.

ARCHAEOLOGY AND CLASSICAL CIVILIZATION

57, 58. Masterpieces of Greek thought. 6 points. PROFESSOR DAY.

M., W., and F. at 11. [3]

A study of great Greek books and compositions of smaller compass, from the point of view of thought. The emphasis will be upon what the Greek authors have to say, not upon later interpretations of their works. Selections from Herodotus and Thucydides, selected plays of the great dramatists, Plato's *Republic* and *Laws*, and Aristotle's *Politics* and *Ethics* will be read; possibly, also, Lucretius' *De Rerum Natura*.

66. Classical Mythology. 2 points. DR. SWALLOW.

Tu. and Th. at 9. [6]

A study of the great myths of classical antiquity, their growth and significance in the ancient world, and subsequent influence on Western literatures.

Open to students of all classes.

77. Classical Drama. 2 points. DR. SWALLOW.

Tu. and Th. at 11. [8]

A literary study of the theatre in Greece and Rome, with emphasis upon its relationships to the modern theatre. Plays of Aeschylus, Sophocles, Euripides, Menander, Plautus, Terence, and Seneca will be read in English translation.

Open to students of all classes.

NOTE: The following courses in Classical Civilization have been offered in recent years: 49, 50—Greek Life and Thought; 53, 54—Roman Life and Thought; 55, 56—Greek Literature in Translation; 75—Greek Political Thought; 78—Comparative Literature.

GREEK LANGUAGE AND LITERATURE

1-2. Introductory Course. 6 points. DR. SWALLOW.

M., W., and F. at 2. [5]

Grammar, composition, and reading. This course may not be begun in the Spring Session.

11. Plato: Apology; Euripides: One Play. 3 points. PROFESSOR DAY.

M., W., and F. at 10. [2]

Prerequisite: *Course 1-2* or three years of high school Greek or special permission.

12. Selections from Homer and Herodotus. 3 points. DR. SWALLOW.

M., W., and F. at 10. [2]

Prerequisite: *Course 1-2* or three years of high school Greek or special permission.

19-20. Prose Composition. 2 points. MR. HENNION.

Hours to be arranged. [0]

May be taken in connection with any reading course in Greek (except *Course 1-2*), but not separately and may be taken for credit in two different years. Particularly recommended to students who have taken only *Course 1-2*.

25. Greek Oratory. 3 points. —————.

M., W., and F. at 11. [3]

Prerequisite: *Courses 11 and 12* or special permission.

26. Greek Comedy: Two Plays. 3 points. —————.

M., W., and F. at 11. [3]

Prerequisite: *Courses 11 and 12* or special permission.

NOTE: Courses 21 (Greek Tragedy), 22 (Thucydides), and 25, 26 are offered in alternate years.

29-30. Prose Composition. 2 points. DR. BENEDICT.

Hours to be arranged. [0]

Prerequisite: *Course 19-20* or the equivalent. May be taken in connection with any reading course in Greek, but not separately, and may be taken for credit in two different years.

See also *Classical Civilization*, page 103, **Fine Arts 41*, page 86, and *History* (Courses 5, 6, 13, 14, 15, 16), pages 106 and 107.

LATIN LANGUAGE AND LITERATURE

3. Vergil: Selections from Aeneid I-VI. 3 points. DR. SWALLOW.

M., W., and F. at 9. [1]

Prerequisite: two or three years of high school Latin or the equivalent. *Course 19-20* is strongly recommended as a parallel course.

4. Pliny: Selected Letters; Ovid: Selections. 3 points. PROFESSOR RICHARDS.

M., W., and F. at 9. [1]

Prerequisite: two or three years of high school Latin or the equivalent. *Course 19-20* is strongly recommended as a parallel course.

11. Selections from Latin Literature. 3 points. DR. SWALLOW.

M., W., and F. at 1. [4]

Prerequisite: *Course 3* or 4 or four years of entrance Latin. *Course 19-20* is strongly recommended as a parallel course.

12. Catullus: Selections; Horace: Odes and Epodes. 3 points. PROFESSOR DAY.

M., W., and F. at 1. [4]

Prerequisite: *Course 3* and 4 or four years of entrance Latin. *Course 19-20* is strongly recommended as a parallel course.

19-20. Latin Composition. 2 points. MR. HATHORN.

M. at 3. [0]

May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. Strongly recommended as a parallel to *Courses 3, 4* and *11, 12*.

25. Cicero, De Officiis: Selections; Tusculan Disputations: Selections. 3 points. PROFESSOR RICHARDS.

Tu. and Th. at 9 and Th. at 1. [6]

Prerequisite: *Courses 11* and *12* or special permission.

26. Roman Drama. 3 points. DR. SWALLOW.

Tu. and Th. at 9 and Th. at 1. [6]

Prerequisite: *Courses 11* and *12* or special permission.

Courses 25, 26 are rotated in a three-year cycle with 21 (Livy; Vergil), 22 (Roman Satire); 27 (Tacitus; Suetonius), 28 (Lucretius; Horace).

29-30. Prose Composition. 2 points. DR. BENEDICT.

M. at 3. [0]

Prerequisite: *Course 19-20*. May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years.

See also *Classical Civilization*, page 103, and *History* (Courses 5, 6, 13, 14, 15, 16), pages 106 and 107.

HISTORY

BASIL RAUCH, Ph.D., Associate Professor of History,
Executive Officer

VIRGINIA D. HARRINGTON, Ph.D., Associate Professor of History

RENÉ ALBRECHT-CARRIÉ, Ph.D., Associate Professor of History

CHILTON WILLIAMSON, Ph.D., Assistant Professor of History

CHARLOTTE T. MURET, Ph.D., Associate in History

ANNE HEENE, A.M., Lecturer in History

RUTH A. ROSA, A.M., Lecturer in Russian Studies

SIDNEY A. BURRELL, A.B., Lecturer in History

DORA BIERER, Ph.D., Lecturer in History

A major in history. Students majoring in history will be required to take the following courses:

History. Courses 1-2 and either 3-4 or 9-10, and, if possible, one other fundamental course, such as those offered in ancient, medieval, or English history. They should then concentrate their attention on European or American history in which they will do work of a more advanced character. Courses 1-2 and 3-4 or 9-10 should be completed by the end of the junior year. Courses 45, 46, 47, 48 and 49, 50 are recommended for seniors majoring in history.

In view of the close relationship between the subject matter of history and that of government, students majoring in history may, with the written permission of the department, offer as part of the 28 points of the major requirement 6 points in government. When such courses are counted toward the major, they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

Other social sciences. In view of the essential unity of the social sciences, students majoring in history must elect 12 points distributed in two social sciences other than history. The courses will be selected in conference with the adviser.

Students majoring in history must acquire a reading knowledge of some foreign language.

With the work in history they may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art, modern history and international relations or sociology, English history and literature or government, American history and economics, the history of thought and culture.

A passing grade in a three-hour history majors' examination at the end of the senior year is a requirement for the degree for all history majors.

See also *Other Interdepartmental Majors*, page 68.

FUNDAMENTAL COURSES

1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. PROFESSOR WILLIAMSON, DR. MURET, MISS HEENE, MR. BURRELL, and DR. BIERER.

M., W., and F. at 9 (I) and (II); M., W., and F. at 10 (III); M., W., and F. at 11 (IV) and (V); Tu., Th., and S. at 10 (VI). [16]

Winter Session: Foundations of modern Europe; political, economic, social, and intellectual achievements from the fifteenth century to the eighteenth; the British, American, and French Revolutions; the era of Napoleon and the Congress of Vienna. *Spring Session:* Industrial Revolution; rise of nationalism;

social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; causes and consequences of the First World War; Fascism, Bolshevism, Nazism; causes and outbreak of the Second World War.

Open to students of all classes.

3-4. The American Heritage. 6 points. PROFESSORS RAUCH and HARRINGTON.

M., W., and F. at 11. [3]

Origins, background, development, and character of American civilization; the coming of Europeans and other peoples to the Americas from the fifteenth to the twentieth centuries and an estimate of their contributions; European events as they influenced the growth of the Americas. The Thirteen English Colonies and the United States as part of the American hemisphere and of the world; the emphasis to be placed on social and cultural history against the political background.

Open to students of all classes.

***5, 6. Ancient History. 6 points. MR. COHN-HAFT.**

M., W., and F. at 9.

A survey of the ancient Mediterranean World. *Winter Session*: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the beginning of Roman interference in the eastern Mediterranean. *Spring Session*: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known-world"; the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity.

Open to sophomores, juniors, and seniors, and to qualified freshmen on written permission of the department. *Fine Arts 41* is recommended as a parallel course.

***7, 8. Europe in the Middle Ages. 6 points. MR. MUNDY.**

Tu. and Th. at 11 and F. at 12.

This course covers the history of the Middle Ages from the decline of the Roman Empire to the rise of the national monarchies in Western Europe. Among the topics treated are: political movements and theories, social and economic life and organization, and the evolution of the Christian Church.

Open to students who have had a history course in college.

9-10. History of the American Nation from Colonies to World Power. 6 points. PROFESSOR WILLIAMSON and MISS HEENE.

M., W., and F. at 10. [2]

Winter Session: Political, social, and economic aspects of American history under the British Empire, during the Revolution, and in the early republic; territorial expansion and foreign affairs before the Civil War; political parties and sectionalism to the Compromise of 1850. *Spring Session*: The Civil War and reconstruction; nationalism and industrial capitalism; the agrarian revolt and the reform movement; the United States as a world power; the First World War and after.

Open to sophomores, juniors, and seniors, and to qualified freshmen on written permission of the instructor.

11-12. England from the Norman Conquest to the Twentieth Century. 6 points. MR. BURRELL.

M., W., and F. at 9. [1]

Surveys the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginnings of collectivism. *Winter Session*: The Norman Conquest, the centralization, and decline of the medieval monarchy; the emergence of Tudor nationalism and the beginnings of the struggle for parliamentary supremacy in the seventeenth century. *Spring Session*: The victory of parliament over the crown; the rise of "oligarchic liberalism" and the first British Empire; the industrialization of Britain and its aftermath; the "new imperialism"; the political and social changes of the nineteenth and twentieth centuries.

Open to students of all classes.

ADVANCED COURSES

[13, 14. History of Greece. 6 points.

Not given in 1951-52.]

A short survey of Greek civilization in its three "stages": Helladic, Hellenic, and Hellenistic; fifth-century Athens as the highest type of Greek culture, and the Hellenistic Age as the period of cultural transmission.

Open to juniors and seniors and to sophomores on written permission of the instructor. *Fine Arts 41* is recommended as a parallel course.

[15, 16. History of Rome. 6 points.*Not given in 1951-52.]*

The rise of Rome, her conquest of the Mediterranean world, a detailed study of the Empire.
Open to juniors and seniors and to sophomores on written permission of the instructor.

[19, 20. The French Revolution and Napoleon. 6 points. DR. MURET.*Not given in 1951-52.]*

A study of the Revolution. The background of eighteenth century Europe; the origins of the Revolution; the salons; the philosophies; the events of the Revolution; the rise of Bonaparte; the Napoleonic era; the spread of the revolutionary doctrines; the struggle for Europe; the Congress of Vienna.

Open to all except freshmen.

***21-22. The Civilization of Latin America. 6 points. MR. MORSE.**

Tu. and Th. at 9, and third hour to be arranged. 309 Hamilton.

A survey of the historical growth of Latin America with special emphasis on the interaction of physical environment and ethnic and cultural elements.

Open to all except freshmen.

[23, 24. Europe in the Nineteenth Century. 6 points. DR. MURET.*Not given in 1951-52.]*

A study of the social and intellectual bases of contemporary Europe and a history of its development after 1815. The results of the Industrial Revolution; the growth of liberalism, democracy, nationalism, and imperialism; romanticism and realism; religious and philosophical movements; the development of science; socialism and syndicalism in theory and practice; the origins of Communism and Fascism.

Open to juniors and seniors and to sophomores on written permission of the instructor.

25, 26. Europe and the Two World Wars. 6 points. PROFESSOR CARRIÉ.

M., W., and F. at 10. [2]

The internal evolution of the principal powers. The dominance of Bismarck's Germany. The renewal of imperial expansion and the formation of rival alliances. The First World War: origins and course; the issue of responsibility. The peace settlements; the League. The apparent liquidation of the war. The new political systems. The collapse of the nineteen-thirties. The Second World War: origins, course, and legacy.

Open to all except freshmen.

27, 28. France in the Nineteenth and Twentieth Centuries. 6 points. DR. MURET.

M., W., and F. at 1. [4]

A review of the political, social, and cultural history of France since 1815. The struggle between the principles of the Revolution and reaction during the Restoration, the July Monarchy and the Second Empire and the establishment of the Third Republic. France in the First World War, and in the post-war period. France in the Second World War; defeat, the Vichy régime, the Resistance Movement, liberation. Reconstruction in France and the political situation since the War. French intellectual and artistic movements in the nineteenth and twentieth centuries and their influence in Europe.

Open to all except freshmen. *Course 27* is prerequisite to *Course 28* except on written permission of the instructor.

[29, 30 (also *History 129). Modern Italy in the Mediterranean. 6 points. PROFESSOR CARRIÉ.*Not given in 1951-52.]*

A brief survey of the background of nineteenth century Italy followed by an account of Cavour's making of united Italy. The growing importance of Italy coincident with the renewed importance of the Mediterranean. Foreign policy, alliances and imperialism, the impact of the first World War and the rôle of fascist Italy with special stress on her position as a Mediterranean power.

Prerequisite: *Course 1-2* except on written permission of the instructor.

[31, 32. Central Europe since the Reformation. 6 points. PROFESSOR CARRIÉ.*Not given in 1951-52.]*

The broad lines of development of the region bounded by the Rhine, the Alps, the Balkans, and

Russia; the struggle for the Rhine; Teuton and Slav; the Turkish advance and retreat; the function of the Hapsburg monarchy; nineteenth century German philosophy. The Holy Roman Empire in the sixteenth century; the Reformation and the Thirty Years War; Sweden; Prussia and the Hapsburg-Hohenzollern conflict; Poland. The effects of nationalism in the nineteenth century. Germany after 1870. The First World War and its consequences.

Open to all except freshmen.

[33-34. American Colonial History. 4 or 6 points. PROFESSOR HARRINGTON.

Not given in 1951-52.

The establishment of the English colonies in the New World; political, economic, religious, and social development of the colonies in the seventeenth and eighteenth centuries; origins of present American institutions in the colonial period; indications of an American culture in the mid-eighteenth century; development of British colonial policy; rivalry with Spain, Holland, and France; British policy after 1763; the Revolution; the Confederation; the Federal Constitution.

Open to all except freshmen.

[35, 36. History of the British Empire. 6 points. PROFESSOR WILLIAMSON.

Not given in 1951-52.

A survey of the Empire from Tudor times to the Second World War. *Winter Session*: the origins, expansion, and institutions of the mercantilistic empire to 1815. *Spring Session*: the free trade and anti-imperialist movements, the evolution of responsible government, the emergence about 1870 of the "new imperialism," the development of the British Commonwealth of Nations, the special problems of the dependent Empire.

Preceding or parallel: *Course 1-2.*

37, 38. Russia Since Peter the Great. 6 points. MRS. ROSA.

Tu. and Th. at 10 and conferences. [7]

A survey of the political, economic, and social development of Russia from 1689 through the Second World War. *Winter Session*: Peter the Great to the Revolution of 1905; political evolution and geographic expansion; the impact of western ideas on Russian culture and society; rural life and the end of serfdom; industrial and commercial development; the beginning of revolutionary movements. *Spring Session*: 1905 through the Second World War; the last decade of the Empire; the Revolution of 1917; the Soviet Union—War Communism, the New Economic Policy, the Five Year Plans, wartime and post-war developments.

Open to all except freshmen.

[41-42. History of Science. 6 points. PROFESSOR CARRIÉ.

Not given in 1951-52.

The development of the main currents of scientific thought, pre- and post-Renaissance, emphasizing the historical relationship between the scientific and the social, economic, and cultural aspects of western civilization.

Open to juniors and seniors only. Does not meet the history requirement of the old curriculum. *Course 41* is prerequisite to *Course 42.*

43, 44. The History of American Thought. 6 points. PROFESSOR HARRINGTON.

Tu. and Th. at 10 and Th. at 2. [7]

A survey of the content and historical significance of major systems of thought in America. Special attention will be given to Puritanism, Rationalism, Transcendentalism, Darwinism, Pragmatism, Nationalism, Progressivism, Humanism, the Social Gospel, and Neo-Orthodoxy.

Preceding or parallel: *Course 3-4* or *9-10.*

45, 46. Readings in Historiography. 8 points. MR. BURRELL.

Tu., 4-6 and frequent conferences. [0]

Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism.

Open to seniors on written permission of the instructor.

47, 48. Seminar in American Civilization. 8 points. PROFESSOR RAUCH.

W., 4-6 and frequent conferences. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion.

Open to seniors on written permission of the instructor.

49, 50. Seminar in European Civilization. 8 points. PROFESSOR CARRIÉ.

M., 2-4 and frequent conferences. [0]

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion.

Open to seniors on written permission of the instructor.

57, 58. History of Religion in America. 6 points. PROFESSOR HARRINGTON.

M., W., and F. at 2. [5]

The history of religious thought and institutions in the United States. *Winter Session*: The religious backgrounds of the colonists and the impact of the American milieu upon their views of church organization, relations between Church and State, religious toleration; their social, economic, and political ideas. The effect of the Calvinist revival in the 18th century, the Great Awakening and the Enlightenment, the Churches and the Revolution. *Spring Session*: The challenge of the West and the contributions of the new immigration; Transcendentalism and the Oxford Movement; the new American sects; the churches and social reform movements; the impact of science and Biblical criticism; fundamentalism, liberal Protestantism, and the contemporary revival of classical Christianity. The current intensification of the problems of Church and State.

83, 84. History of United States Foreign Relations. 6 points. MISS HEENE.

M. and W. at 2 and conferences. [5]

The history of American diplomacy from the Secret Committee on Correspondence to recent times, with attention to domestic and foreign influences on the policies and actions of American leaders.

Preceding or parallel: *Course 9-10* or *3-4*.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereto in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

HYGIENE

MARJORY J. NELSON, M.D., College Physician

A1. Modern Living. 2 points. DEAN MCINTOSH, PROFESSOR KOMAROVSKY, and DR. NELSON.

Winter Session: Required of freshmen. M. and W. at 1 (I); Tu. and Th. at 9 (II); at 10 (III). Discussion groups (one hour per week) will be arranged. [12]

RA1. Spring Session. DR. NELSON. Required of transfers not excused.

Tu. and Th. at 10. [7]

A study of the physical and emotional development of the individual in preparation for marriage, careers, and group relationships.

ITALIAN

MARISTELLA DE PANIZZA BOVÉ, LITT.D., Assistant Professor of Italian,
Executive Officer

A major in Italian. Students majoring in Italian will be required to take:

Italian. Courses 3, 4, 5, 6, 15, 16, 17, 18, 19, 20, 21, 22, and other courses to be arranged in consultation with the department.

Other fields. English 43, 46; Fine Arts 51, 52, 62, 65; History 15, 16, 29, 30; Philosophy 61-62; Religion 1-2. Two years of French or German or Spanish. Some knowledge of Latin is also desirable.

LANGUAGE COURSES

1-2. Introductory Full-Year Course. 8 points. PROFESSOR BOVÉ.

M., Tu., W., Th., and F. at 9. [17]

A rapid course in the Italian language intended for students who wish to acquire in one year ability to read masterpieces of Italian literature, as well as opera librettos and critical works on Italian music and art. Emphasis is placed on the oral aspect of the language. Extensive use of realia, music, and phonograph records.

This course may not be taken parallel to *Spanish 1-2*.

3, 4. Intermediate Course. 6 points. PROFESSOR BOVÉ.

Tu. and Th. at 11 and F. at 2. [8]

Reading, composition, and conversation.

Prerequisite: *Course 1-2* or the equivalent. Conducted in Italian.

5, 6. Italian Conversation. 2 points. PROFESSOR BOVÉ.

Hours to be arranged. [0]

To be taken in connection with another Italian course.

LITERATURE COURSES

[15. Dante and Medieval Culture. 3 or 4 points. PROFESSOR BOVÉ.

Not given in 1951-52.

A study of Dante, his poetry and his times, including practice in the written and spoken language—"Analisi estetica" of the most celebrated passages of the *Divine Comedy*.

Prerequisite: *Course 3, 4* or the equivalent. This course may be taken for credit in two different years. Conducted in Italian.

[16. The Italian Renaissance. 3 or 4 points. PROFESSOR BOVÉ.

Not given in 1951-52.

Petrarch and humanism. Machiavelli and political philosophy. Castiglione and the ideal of the modern gentleman. Ariosto and the Italian chivalric epic. Galileo and modern science. Tasso and the counter-reformation. This course includes practice in the written as well as the spoken language.

Prerequisite: *Course 3, 4* or the equivalent. Conducted in Italian.

[17, 18. Italian Literature of the Nineteenth Century. 6 or 8 points. PROFESSOR BOVÉ.

Not given in 1951-52.

Special emphasis will be laid on the works of Manzoni, Leopardi, Carducci.

Prerequisite: *Course 3, 4* or the equivalent.

19, 20. Italian Civilization. 6 points. PROFESSOR BOVÉ.

M., W., and F. at 3. [10]

Winter Session: A study of Italian culture in the thirteenth and fourteenth centuries with special emphasis on Dante, Petrarch, and early humanism. *Spring Session:* A study of Italian culture from the fifteenth century to modern times with special emphasis on world exploration, the discovery of politics, Renaissance arts and social life, development of music, drama, opera, and modern science.

Open to students of all classes. Conducted in English.

21, 22. Special Reading. 4 or 6 points. PROFESSOR BOVÉ.

Hours to be arranged. [0]

Discussions on readings in Italian art, history, science, music, and letters. Individual reading assignments are generally given in that field of Italian culture most intimately associated with the student's major interests.

Required of major students to whom this course offers an opportunity to supplement and coördinate their work in other courses. With the written permission of the department this course may be taken in two successive years. Conducted in Italian.

LATIN

See *Greek and Latin*

LINGUISTICS

See *Anthropology*

MATHEMATICS

EDGAR R. LORCH, Ph.D., Professor of Mathematics,
Executive Officer

GRACE L. BOLTON, A.M., Instructor in Mathematics

EDWARD K. BLUM, A.M., Instructor in Mathematics

ELEONORE MUTIN, A.M., Assistant in Mathematics

A major in mathematics. Students majoring in mathematics will be required to take:

Mathematics. A minimum of 28 points including the calculus sequence, *Mathematics 31, 32, 33*, or the equivalent, and in addition courses selected with the approval of the major adviser. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Faculty of Pure Science. The majors' examination will be given in two parts, both written. The first will concern the material covered in Analytic Geometry and the calculus sequence. The second will be based on the elective courses (work beyond the calculus) taken by the student.

Other fields. Usually a major in mathematics finds it advantageous to supplement her mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. The choice of these related courses will vary with the special interests of the student and must be decided upon in consultation with the major department.

1 (or R1). Trigonometry. 3 points either session. Miss BOLTON and Mr. BLUM.

Winter Session only: 1—M., W., and F. at 9. [1]

Spring Session only: R1—M., W., and F. at 10. [2]

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations.

7-8. Mathematical Analysis. 6 points. Miss BOLTON.

M., W., and F. at 3. [10]

A general cultural course designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. The subject matter will include topics from algebra, trigonometry, analytic geometry, differential and integral calculus. The emphasis will be upon the appreciation of the philosophy of mathematics and will reduce to a minimum the development of technical skills and the applications to specific problems. This course is not recommended for students of the physical sciences and is not open to students planning to major in mathematics.

22 (or R22). Analytic Geometry. 3 points either session. Miss BOLTON and Mr. BLUM.

Winter Session only: R22—M., W., and F. at 9 (I); Tu., Th., and S. at 9 (II). [13]

Spring Session only: 22—M., W., and F. at 9 (I); Tu., Th., and S. at 9 (II). [13]

Introduction to the analytic geometry of the plane and of space. Rectangular and polar coördinate systems, transformations, loci and their equations, the straight line, the conic sections.

Prerequisite: *Course 1*.

24. Algebra and the Theory of Equations. 3 points. Miss BOLTON.

M., W., and F. at 10. [2]

Permutations and combinations, probability, mathematical induction, complex numbers, theory of equations, determinants.

Prerequisite or parallel: *Course 1*.

[30. Graphical and Numerical Methods. 3 points. Miss BOLTON.*Not given in 1951-52.]*

Nomographic charts for calculation, solution of equations by graphical and numerical methods, numerical integration, numerical solutions of differential equations.

Prerequisite: *Course 22.*

31-32 (or R32-R31). Calculus. 6 points. Miss BOLTON and Mr. BLUM.

Entire year: 31-32—M., W., and F. at 1. [4] *Winter Session only:* R32 (equivalent of 32)—M., W., and F. at 1. [4] *Spring Session only:* R31 (equivalent of 31)—M., W., and F. at 9. [1]

Differential and integral calculus. *First Semester:* Derivatives and their applications. Tangents, maxima and minima, curve tracing, curvature, rectilinear and curvilinear motion, law of the mean. *Second Semester:* Integration. Applications to geometry and physics: areas, volumes, arc length, centroids, mass, fluid pressure.

Students electing R31 in the Spring Session must take R32 in the following Winter Session. Prerequisite: *Course 22.*

33 (or R33). Calculus. 3 points. Miss BOLTON and Mr. BLUM.

Winter Session only: 33—M., W., and F. at 10. [2]

Spring Session only: R33—M., W., and F. at 1. [4]

Continuation of the study of calculus. Infinite series, solid analytic geometry, partial differentiation, multiple integrals.

Prerequisite: *Course 31-32.*

43. The Theory of Space and Time. 3 points. PROFESSOR LORCH.

M., W., and F. at 10. [2]

The course will be divided into two parts. In the first, the foundations of euclidean and non-euclidean geometry will be considered. The second is devoted to the special theory of relativity.

Prerequisite: *Course 31-32.*

***53. Advanced Calculus. 3 points. PROFESSOR SMITH.**

M., W., and F. at 11.

Functions of real variables; rigorous study of Fourier series; gamma function; calculus of variations.

Prerequisite: *Course 33.*

[54. Advanced Calculus. 3 points. Miss BOLTON.*Not given in 1951-52.]*

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line integrals, the theorems of Green and Stokes; Fourier series; the calculus of variations.

Prerequisite: *Course 33.*

***57. Higher Algebra. 3 points. PROFESSOR KOLCHIN.**

Tu. and Th., 9:35-10:50.

Linear transformations, matrices, polynomials.

Preceding or parallel: *Course 32.*

***104. Differential Equations. 3 points. PROFESSOR MURRAY.**

M., W., and F. at 10.

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics.

Prerequisite: *Course 33.*

***105. Elements of the Theory of Functions of Complex Variables. 3 points. PROFESSOR MURRAY.**

M., W., and F. at 9.

This course is intended for those who need a working knowledge of the theory of functions of

complex variables as an instrument for the physical sciences and engineering; it is on a concrete and elementary level, concerning itself with methods and applications rather than with the rigorous development of abstract theory. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces.

Prerequisite: *Course 33*.

***108. Probability.** 3 points. PROFESSOR KOOPMAN.

M., W., and F. at 11.

The classical theory of probability is developed in a rigorous fashion. The critique of the theory is implemented by the discussion of numerous examples. The topics treated include: the theorems of Tchebycheff, Bernoulli, and Poisson; Stirling's formula; the probability integral; generating functions; the normal law of error.

Preceding or parallel: *Course 33*.

110. Calculus of Finite Differences. 3 points. PROFESSOR LORCH.

M., W., and F. at 9. [1]

The calculus of finite differences and sums is developed in analogy to the differential and integral calculus, and is then applied to the study of difference equations, special functions, infinite products, and asymptotic expansions. While the emphasis of the course is theoretical, applications are made to interpolation and approximation in tabulated data.

Prerequisite: *Course 33*.

***111-112. Algebra.** 6 points. PROFESSOR CHEVALLEY.

Tu. and F., 8:45-10 p.m.

MUSIC

¹DOUGLAS STUART MOORE, A.B., Mus.B., Mus.D., Professor of Music
OTTO LUENING, Professor of Music on the Joline Foundation,
Executive Officer

¹HERBERT DITTLER, Associate Professor of Music

¹WILLIAM J. MITCHELL, A.M., Associate Professor of Music

¹WILLARD RHODES, A.M., Associate Professor of Music

CAROLYN P. CADY, A.M., Assistant Professor of Music

¹ABRAHAM LOFT, Ph.D., Assistant Professor of Music

¹FRANK WIGGLESWORTH, M.M., Instructor in Music

¹JACOB AVSHALOMOFF, A.M., Instructor in Music

¹JACK BEESON, A.M., Instructor in Music

¹VLADIMIR USSACHEVSKY, Ph.D., Instructor in Music

¹RUDOLPH THOMAS, Lecturer in Music

Teaching staff in Applied Music:

ALTA HILL, Piano

FRANK M. SHERIDAN, Piano

DAGMAR RYBNER-BARCLAY, Voice

¹CARL WEINRICH, F.A.G.O., Organ

A major in music. Students intending to major in music should plan to take *Courses 1* and *2* in the freshman year and *Course 31-32* in the sophomore year, as these courses are prerequisite to the advanced courses in literature, history, and theory which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and *Course 1-2*) both in literature and history, and in

¹ Officer of Columbia University offering courses open to Barnard students.

theory. Ordinarily *Courses 23-24, 35-36, 37-38, and 41-42* are required. Applied music courses are counted toward fulfillment of the degree but are not required. Music majors, whether or not registered in courses in applied music, are expected to participate in the undergraduate musical organizations.

Attendance at the Collegium Musicum meetings is compulsory for all music majors.

Other fields. A reading knowledge of German, Italian, or French is required. Students planning to do graduate work must have two foreign languages one of which is German. *Italian 1-2* is recommended for its relationship with the materials of *Music 5. Philosophy 41-42* is recommended. Courses in history, literature, or other fields which will vary with the special interest of the student should be elected after consultation with the major department.

Practice rooms. The department provides practice rooms at a nominal charge for the use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the department office, 407 Barnard, during registration and the first two days of classes. Organ students should apply to the Columbia departmental secretary, 601 Journalism.

Library. Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 4 points. *Music 1:* PROFESSOR MOORE. *Music 2:* PROFESSOR LUENING.

Tu. and Th. at 11, and an additional drill hour, Th. at 1. 603 Journalism. [8]

A study of the elements of musical structure designed to form intelligent habits of listening to music. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required.

***5. The Opera.** 3 points. PROFESSOR RHODES.

M., W., and F. at 2. 608 Journalism.

A rapid survey of the development of opera from Monteverdi to the present.
Prerequisite: *Course 1-2* or the equivalent.

***6. The Symphony.** 3 points. PROFESSOR CADY.

M., W., and F. at 3. 608 Journalism.

Survey of symphonic style and structure from about 1750 to the present.
Prerequisite: *Course 1-2* or the equivalent.

G.S. 13-14. Literature of Chamber Music. 4 points. PROFESSOR DITTLER.

Tu., 3-5. 609 Journalism.

A study of the literature of chamber music involving class analysis and performance of a selected list of compositions from the seventeenth century to the present day.

Prerequisite: *Course 1-2* or the equivalent, and sufficient technical ability on piano, string, or wind instrument. Open only on written permission of the instructor.

[G.S. 19, 20. Literature of Choral Music. 2 points. MR. AVSHALOMOFF.

Not given in 1951-52.]

A study of the choral literature from the Renaissance to the present.

Prerequisite: *Course 1-2* or the equivalent and the ability to read music.

***23-24. History of Music.** 6 points. PROFESSOR LOFT.

M., W., and F. at 9. 608 Journalism.

A survey of the history of music from the beginning of the Christian era to the present.

Prerequisite: *Course 31-32* or the equivalent.

***27. Introduction to Classical Music.** 3 points. PROFESSOR CADY.

M., W., and F. at 11. 608 Journalism.

Analysis, discussion, and performance of representative music of the Classical era, with special consideration of the place of music in the general culture of the period. Students will be required to submit original, critical reports on assigned topics.

Prerequisite: *Course 31-32* or the equivalent.

[*28. Introduction to Romantic Music. 3 points. PROFESSOR CADY.

Not given in 1951-52.]

Analysis, discussion and performance of representative music of the nineteenth century, with special consideration of the place of music in the general culture of the period. Students will be required to submit original, critical reports on assigned topics.

Prerequisite: *Course 31-32* or the equivalent.

***41-42. Historical and Analytical Studies in the Literature of Music.** 6 points. PROFESSOR CADY.

Th., 2-4. 608 Journalism.

Required seminar for senior music majors to supplement and coördinate previous studies.

***107. Bach and the Baroque Period.** 2 points. PROFESSOR MOORE.

M., 2-4 and Th. at 2. 603 Journalism.

Analysis, discussion, and performance of representative music of the baroque era with emphasis on the works of Bach.

Prerequisite: *Course 31-32* or the equivalent.

***108. Twentieth-Century Tendencies in Music.** 2 points. PROFESSOR MOORE.

M., 2-4 and Th. at 2. 603 Journalism.

Lectures and discussions of the idioms, esthetics, forms, and styles of the chief contemporary composers.

Prerequisite: *Course 31-32* or the equivalent.

[*113-114. History of the Mass. 4 points. PROFESSOR HERTZMANN.

Not given in 1951-52.]

***119-120. History of the Opera to 1800.** 4 points. PROFESSOR LANG.

Th., 10-11:50. 703 Journalism.

The development of opera from its beginnings to the end of the 18th century with emphasis on the high classic period.

Open to qualified seniors. Prerequisite: *Course 23-24*.

***121-122. History of Music from 1000 to 1600.** 4 points. PROFESSOR HERTZMANN.

W., 1-3. 703 Journalism.

A survey of the main types of music in the Middle Ages and the Renaissance.

Open to qualified seniors. Prerequisite: *Course 23-24*.

[*123-124. History of Music from 1600 to 1900. 4 points. PROFESSOR LANG.

Not given in 1951-52.]

Collegium Musicum meets several times a year on Monday evenings to be announced. College Parlor, Barnard.

The aim of this organization is to acquaint the students with certain neglected and unfamiliar master-

pieces in the literature of music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in the performance of vocal and instrumental music. The literature to be used embraces music from medieval times to the present day. Emphasis is placed upon a variety of compositions and not on finished performance.

THEORY

31-32. Harmony. 8 points. PROFESSOR CADY.

M. and F. at 1 and W., 1-3. 408 Barnard. [4]

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training and one hour to keyboard harmony. Students who register must be able to play the piano.

Prerequisite: *Course 1-2* or the equivalent and the written permission of the instructor.

35-36. Counterpoint. 6 points. MR. USSACHEVSKY.

M., W., and F. at 10. 609 Journalism. [2]

Prerequisite: *Course 31-32* or the equivalent.

***37-38. Advanced Harmony and Analysis.** 8 points. PROFESSOR MITCHELL.

Tu. and Th., 9-11. 608 Journalism.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. One hour each week will be devoted to a study of musical design.

Prerequisite: *Course 31-32* or the equivalent. Parallel, advised but not required: *Course 35-36*.

***39-40. Composition.** 4 points. PROFESSOR LUENING.

W. and F. at 11. 609 Journalism.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.

Prerequisite: *Course 37-38* or permission of the instructor.

***131-132. Composition.** 4 points. MR. BEESON.

M., 2-4. 609 Journalism.

Canon and fugue are studied with practice in writing in these forms. Freer compositions are made for chorus, organ, piano, and chamber-music groups.

Prerequisite: *Course 35-36* and the written permission of the instructor.

G.S. Music 71-72. Orchestration. 6 points. MR. THOMAS.

Room and hours to be arranged.

A description with demonstrations of modern orchestral instruments. Students will make instrumental arrangements for various ensembles.

Prerequisite: Permission of the instructor.

***73-74. Conducting and Score Reading.** 6 points. MR. THOMAS.

Tu. at 2 and Th., 1-3. 609 Journalism.

Lectures and practice in conducting. Reading, at the keyboard, of music for transposing instruments and of scores written in the C-clefs.

Prerequisite: *Course 31-32* or the equivalent and the written permission of the instructor.

APPLIED MUSIC

Note: Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count toward the degree.

***63-64. University Chamber Orchestra.** 2 points. PROFESSOR DITTLER.

W., 7:30-9:30 p.m. Casa Italiana Auditorium.

The regular activities of the orchestra include two concerts in McMillin Theater and two opera

productions in Brander Matthews Hall. Membership in the orchestra is not limited to students who register for this course.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period.

***67-68. University Band. 2 points. MR. HUNTER WILEY.**

Tu., 7:30-9:45 p.m. Casa Italiana.

The *marching unit* of the band appears at all major athletic events. Membership is restricted to men.

The *concert unit* gives a number of local and out-of-town concerts during the season and appears at Commencement. Membership is open to both men and women. Neither unit is limited to students who register for this course.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period.

79, 80. Vocal Instruction. 2 points (see *Note* above). MME. RYBNER-BARCLAY.

One hour weekly to be arranged. 406 Barnard. [0]

Private lessons in voice production and in interpretation. Coaching and repertory.

No student shall register for this course without consultation with the Music Department as early in the registration period as possible. Special fee, \$100 each session; no refunds.

83, 84. Organ Instruction. 2 points (see *Note* above). MR. WEINRICH.

Hours to be arranged. [0]

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

Open only on written permission of the instructor.

Consult the Columbia Music Department about registration and fees.

91, 92. Piano Instruction for Beginners. 2 points (see *Note* above). MISS HILL.

Hours to be arranged. 406 Barnard. [0]

Private lessons in the technique of the instrument and in interpretation.

No student shall register for this course without consultation with the Music Department as early in the registration period as possible. Special fee, \$100 each session; no refunds.

93, 94. Piano Instruction for Advanced Students. 2 points (see *Note* above). MR. SHERIDAN.

Hours to be arranged. 406 Barnard. [0]

Private lessons in the technique of the instrument and in interpretation. Coaching and repertory.

No student shall register for this course without consultation with the Music Department as early in the registration period as possible. Special fee, \$160 each session; no refunds.

Columbia University Chorus. JACOB AVSHALOMOFF, Director.

Rehearsals: M. and Th., 7:30-9:30 p.m. 139 Milbank Hall

Auditions: September 24 through 28, 604 Journalism

12:30-1:30 p.m.

7-9 p.m.

First rehearsal: M., Oct. 1

All members of the University, undergraduate and graduate students, faculty, and staff, are eligible for membership, subject to musical qualifications. The repertory will consist of representative works of the serious choral literature from the Renaissance to the present day.

Three main concerts are given each year in McMillin Theatre; one of them with the Columbia University Chamber Orchestra. In addition, off-campus appearances include nationwide broadcasts, and concerts given in conjunction with organizations such as the National Orchestral Association and the Little Orchestra Society.

Chapel Choir. DR. LOWELL P. BEVERIDGE, Director of Chapel Music.

All men and women students of the University are eligible to sing in the Chapel Choir. Regular members of the choir will receive \$100 for the academic year.

Services: Daily except Saturday, 12-12:20, and Sunday at 11.

Rehearsals: M., W., and F., 5-6:15; Sunday, 9:45. Chapel Crypt.

Auditions: M., Sept. 24, 10-12 and 2-5; Tu., Sept. 25, 10-12; W., Sept. 26, 10-12.

PHILOSOPHY

HELEN HUSS PARKHURST, Ph.D., Professor of Philosophy,
Executive Officer

GERTRUDE V. RICH, Ph.D., Associate Professor of Philosophy

JOHN E. SMITH, B.D., Ph.D., Assistant Professor of Philosophy

JOSEPH GERARD BRENNAN, Ph.D., Assistant Professor of Philosophy

ISABEL S. STEARNS, Ph.D., Visiting Lecturer in Philosophy

Since the philosopher raises fundamental questions about the universe, man, and human institutions, and since he endeavors to correlate the various fields of knowledge in his search for the good, the true, and the beautiful, philosophic study is peculiarly bound up with and dependent upon all other studies. According to which subdivision of the whole field of philosophy—ethics, logic, theory of knowledge, metaphysics, esthetics—particularly interests those majoring in the subject, one or another group of courses will be found especially valuable. Strongly recommended:

1) in connection with the study of *individual and social ethics* are certain courses in religion, psychology, anthropology, government, and sociology;

2) in connection with the study of *logic*, courses in mathematics, statistics, scientific methods, and linguistics;

3) in connection with the study of *metaphysics*, courses in the sciences of inorganic and organic nature;

4) in connection with the study of *esthetics*, certain courses in music, fine arts, psychology, anthropology, and the literatures, ancient and modern;

5) in connection with the study of the *history* of philosophic ideas, courses in the history of science and in political and social history.

So intimately connected with the subject-matter of philosophy is the subject-matter dealt with in such courses that, by special arrangements, a limited number of points, not exceeding 6, in related departments, may count toward the 28-point requirement for a major in philosophy.

1 (or R1). Introduction to Philosophy. 3 points either session. PROFESSORS PARKHURST, RICH, BRENNAN, and SMITH.

M., W., and F. at 9 (I); at 10 (II); at 11 (III); at 2 (IV) for freshmen only.

A survey of the various subdivisions of philosophic inquiry with special consideration of the metaphysics of materialism and idealism and their respective affiliations with natural science and with religion.

4. Metaphysics. 3 points. PROFESSOR BRENNAN.

M., W., and F. at 11. [3]

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments.

Prerequisite: *Course 1* or the equivalent.

5. Logic. 3 points. PROFESSOR BRENNAN.

M., W., and F. at 11. [3]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by examination of contemporary deductive systems.

22. Ethics. 3 points. PROFESSOR SMITH.

Tu. and Th. at 10 and Th. at 1. [7]

Man and his concern for moral values. Discussion of various views of the good life including:

Kantian ethics, utilitarianism, ethics of self-realization, naturalism, positivism, intuitionism. The relation of religion to morality. Readings will include selections from Kant, Mill, Bentham, F. H. Bradley, Dewey, Russell, Ayer, Moore, and Ewing.

Open to juniors and seniors and to qualified sophomores on the written permission of the department.

41-42. General Esthetics. 6 points. PROFESSOR PARKHURST.

Tu. and Th. at 9. [6]

A survey of the main problems of esthetic theory including the origins of art, the nature of creative imagination and esthetic experience, and the meaning of the beautiful, the sublime, the tragic, and the comic. The arts will be treated comparatively for a distinguishing of their similarities and differences of medium, subject-matter, and esthetic form, and for a consideration of their relations to the experienced world and everyday living.

Open to juniors and seniors and to qualified sophomores on the written permission of the department.

43. Philosophical Implications of the Modern Novel. 3 points. PROFESSOR BRENNAN.

M., W., and F. at 1. [4]

The following themes will be developed: the relation of man to nature and to art; the rôle played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Kafka, A. Zweig, Malraux, Koestler, and of other important contemporary novelists will be read and discussed.

Prerequisite: *Courses 1 (R1)*, 41-42 or the equivalent, or the written permission of the instructor.

45, 46. The Esthetics of Poetry and Prose. 4 points. PROFESSOR PARKHURST.

Tu. and Th. at 10. [7]

A study of the musical aspect of poetry—rhythm, rhyme, alliteration, and stanzaic patterns; of poetic imagery in prose as well as poetry; of principles of prose style; and a consideration of the range of literary subject-matter and of the similarities and dissimilarities of literature and other kinds of artistic creation.

53, 54. Problems of Esthetics. 2 points. PROFESSOR PARKHURST. [0]

This course may be taken only in connection with some other course in esthetics. Hour to be arranged for individual conferences for the discussion of important texts.

61-62. The History of Philosophy. 6 points. PROFESSOR RICH and DR. STEARNS (first term); PROFESSORS RICH, SMITH, and BRENNAN (second term).

M., W., and F. at 10. [2]

Open to juniors and seniors, and to qualified sophomores on written permission of the department.

63, 64. Readings in the History of Philosophy. 2 points. PROFESSOR BRENNAN. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. Hour to be arranged for individual or group conferences for the discussion of important texts.

65-66. Special Reading. 2 points. PROFESSORS PARKHURST, RICH, SMITH, and BRENNAN.

M. at 1. [0]

Required of all majors in the senior year.

[67. Seventeenth and Eighteenth Century British Philosophy and Its Influence. 3 points. PROFESSOR RICH.

Not given in 1951-52.]

This course is designed to give the student an acquaintance with the general background of seventeenth and eighteenth century British thought, with special emphasis on the development of the liberal tradition in politics, religion, and ethics, and some knowledge of the influence of this tradition on French philosophy and on the American democratic ideal. To this end, Newton and Locke and a number of other British philosophers, and certain French thinkers including Montesquieu, Voltaire, Helvetius, and Rousseau, are considered, as they affect the scientific world-picture and the developing belief in the natural rights of man.

Preceding or parallel: *Philosophy 61-62*, except by special permission.

[69. The Liberal Tradition in Philosophic Thought. 3 points. PROFESSOR RICH.*Not given in 1951-52.]*

The study will involve a definition and evaluation of liberalism, and its application in the fields of religion, ethics, and politics from the time of Socrates to the present day.

Preceding or parallel: *Philosophy* 61-62, except by permission of the instructor.

70. American Philosophy. 3 points. PROFESSOR RICH.

Tu. and Th. at 11 and a third hour to be arranged. [8]

A brief development of the Puritan tradition in America and of the political philosophy out of which our institutions have grown will preface a consideration of the great schools of philosophy and their recent American representatives, especially Royce, James, Santayana, Dewey, and the Neo-Realists.

Prerequisite: *Courses* 1 and 4, or 61-62, except by special permission.

71. German Idealism. 3 points. PROFESSOR SMITH.

Tu. and Th. at 10 and a conference hour. [7]

A study of the fundamental doctrines of the idealist philosophers Leibniz, Kant, Fichte, Schelling, Hegel, and Schopenhauer. Special reference will be made to the social, religious, and political influence of these thinkers in Germany, England, and America. Mention will be made of the British thinkers T. H. Green and F. H. Bradley, and of the American philosopher Josiah Royce. Reading of original sources will take precedence over secondary material.

Prerequisite or parallel: *Philosophy* 61-62.

75. Some Current Trends in Philosophy. 2 points. PROFESSOR SMITH.

Th., 1-3. [9]

A brief consideration of some of the basic issues being discussed at present by exponents of naturalism, analytic philosophy, the philosophy of process, the philosophy of existence, and idealism. Readings will include short selections from the writings of Russell, Ayer, Whitehead, Hartshorne, Kierkegaard, Heidegger, Blanshard, and the Neo-Naturalists.

Prerequisite: *Philosophy* 61-62.

81, 82. The Philosophy of Religion. 6 points. PROFESSOR SMITH.

M. and W. at 3, and a conference hour. [10]

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen.

Prerequisite: *Philosophy* 1. *Religion* 4, 25 are recommended

[91, 92. America and the Future—Schemes for a Better World. 4 or 6 points. PROFESSORS PARKHURST and RICH with the collaboration of guest speakers.*Not given in 1951-52.]*

This course may count toward a major in philosophy and in other subjects with the consent of the department concerned. For full description, see page 69.

PHYSICAL EDUCATION

MARGARET HOLLAND, A.M., Associate Professor of Physical Education,
Executive Officer

MARION STRENG, A.M., Assistant Professor of Physical Education

FERN YATES, A.M., Assistant Professor of Physical Education

LELIA M. FINAN, A.M., Assistant Professor of Physical Education

MARION W. PHILIPS, A.M., Instructor in Physical Education

JEANETTE SCHLOTTMANN, A.M., Instructor in Physical Education

ELIZABETH JO CHAPMAN, A.M., Instructor in Physical Education

The Program. The program for health, physical education, and recreation is organized and supervised by the Department of Physical Education, the Medical Department, and the Executive Board of the Athletic Association to serve the interests, needs, and capacities of the students. Barnard College does not offer a major in physical education. Students who are interested in this field as a profession are advised to consult a member of the department for suggestions as to curriculum.

The Aim. The ultimate aim of the Medical and Physical Education Departments in their program is to provide each student with opportunities and experiences which are adequate for the acquisition of knowledge, skills, habits, and attitudes concerning health, physical activity, and recreation. Regular participation in such a program during college should insure for her the optimum in "fitness for living"; it should develop proficiency in skill in sports, swimming, and rhythmic, all of which should contribute toward a more abundant and satisfying post-college life.

The Medical and Anthropometric Examinations and Posture Analysis. Students are given three complete medical examinations by the college physician and additional ones when indicated. The Department of Physical Education provides for two complete anthropometric and posture examinations. The schedule of these examinations is found in the Physical Education Handbook. The results of these examinations are expressed in terms of a health and activity grade which is one of the factors determining the kind of program a student wishes to pursue.

A medical examination or consultation with the college physician is required of upperclassmen *before* classes begin in the fall *only* if:

1. During the previous year their health and activity grade was a "C".
2. During the summer their health has become impaired as a result of illness.

All students are required to report any indisposition to the college physician.

Prescribed Costume. All students are required to wear the regulation costume indicated for the various activities classes. Approximate cost \$15.00. For further information see handbook.

The Requirement. The Faculty requires physical education throughout the college course. *The student is not recommended for her degree if she fails to fulfill this requirement.*

FRESHMAN requirement is three hours per week on different days. During the first semester two of these hours are prescribed, namely body mechanics and rhythmic fundamentals, M. and W. at 10 (I), 11 (II), 2 (III), 3 (IV); the third hour to be elected.

SOPHOMORE, JUNIOR, AND SENIOR requirement is two hours per week on different days.

Senior Exemption. During the second term of the senior year seniors may be exempt from any further regular physical education activity, provided the requirements are satisfied. For details see Physical Education Handbook issued upon entrance.

Program of Activities. Two seasons each semester. Except for two hours which are prescribed for freshmen during the first semester, all students elect their 3/2 hours of activity depending upon their health, activity status, and special interests.

Fall and Spring: archery; canoeing; deck tennis; golf; hockey; riding; softball; swimming; tennis; volley ball.

Winter—both semesters: American square-country dance; badminton; basketball; body mechanics; bowling; canoeing; conditioning exercises; correctives; diving; fencing; folk dance; fundamentals; Greek Games athletics and/or dance; modern dance; Red Cross life-saving; riding; swimming; volley ball; water ballet.

In all of these activities students are advised to register according to their skill level, i.e., beginning, intermediate, or advanced.

The June camp leadership course at Barnard College Camp aims primarily to train students who are interested in the organization and conduct of Barnard College Camp. A fee of \$20.00 is charged for the two-week period. This is an entirely voluntary course and is not a part of the physical education program.

PHYSICS

HENRY A. BOORSE, Ph.D., Professor of Physics,
Executive Officer

ALBERT G. PRODELL, A.B., Lecturer in Physics
GLADYS LERNER, A.B., Assistant in Physics

A major in physics. Students majoring in physics will be required to take:

Physics. Courses to be arranged in consultation with the department.

Other fields. Mathematics: An adequate background in mathematics should be acquired as early as possible. Calculus is a corequisite or prerequisite for Physics 6 and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

3-4. General Physics. 8 or 9 points. PROFESSOR BOORSE, MR. PRODELL, and Assistant.

Lectures: M., W., and F. at 11.

Laboratory (2 hours each session): M., 2-4; Tu., 9-11 or 2-4; Th., 1-3, and if more than 56 students elect the course, F., 2-4. [3]

A third hour, following the laboratory period, is devoted to a discussion of problems and the application of physical principles. Election of the third hour is optional but is advised for all students, especially those seeking to fulfill the premedical requirement.

Preceding or parallel: Mathematics through trigonometry.

3a-4a. General Physics. 6 or 7 points. PROFESSOR BOORSE, MR. PRODELL, and Assistant.

M., W., and F. at 11. [3]

Lectures identical with those of Course 3-4. No laboratory work. Discussion hour optional but advised.

To follow or parallel a laboratory science.

R5. Modern Physics. 3 points. PROFESSOR BOORSE.

M., W., and F. at 2. [5]

An elementary introduction to modern atomic and nuclear physics. Intended for all students who have completed general physics and wish to obtain a better understanding of recent important developments in physics.

Prerequisite: *Course 3-4.*

***Physics 6. General Physics, I. Mechanics and Heat.** Four hours' lecture and recitation, and three consecutive hours' laboratory. 5 points. PROFESSOR QUIMBY and DRs. BODANSKY, GOLDBABER, RESNICK, and Assistants.

Lectures and Recitation: M., W., and F. at 9, and one additional hour to be arranged.
301 Pupin.

Laboratory: Hours to be arranged.

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws.

Prerequisite: Entrance physics or an equivalent. Parallel: Differential calculus.

***Physics 7. General Physics, II. Electricity and Magnetism.** Three hours' lecture and recitation, and three consecutive hours' laboratory. 4 points. PROFESSOR MITCHELL and DRs. BODANSKY, GOLDBER, RESNICK, and Assistants.

Lectures: Tu., Th., and S. at 9. 301 Pupin.

Laboratory: Hours to be arranged.

Electrostatics and properties of dielectrics; direct currents and elementary consideration of transients; electromagnetism and properties of ferromagnetic materials; introduction to alternating currents.

Prerequisite: *Physics 6*. Parallel: Integral calculus.

***Physics 8. General Physics, III. Light and Atomic Physics.** Three hours' lecture and recitation, and three consecutive hours' laboratory. 4 points. PROFESSOR BOOTH and DRs. BODANSKY, GOLDBER, RESNICK, and Assistants.

Lectures: Tu., Th., and S. at 9. 301 Pupin.

Laboratory: Hours to be arranged at first lecture.

Photometry, geometrical and physical optics, electromagnetic radiation, and introduction to atomic physics.

Prerequisite: **Physics 7*.

***Physics 11 or R11. Wave Motion and Introduction to Modern Physics.** Three hours' lecture and recitation, and three hours' laboratory. 4 points either session. PROFESSOR VON NARDROFF, MR. STONE and Assistants.

Lectures: Tu., Th., and S. at 11. 329 Pupin.

Laboratory: Hours to be arranged at first lecture.

Waves in solids, liquids, and gases; ultrasonics. Electromagnetic waves; black body radiation; x-ray diffraction; analysis of crystal structure; photoelectric effect; Compton effect; elementary quantum theory of atomic and molecular spectra; nuclear physics and atomic energy.

Prerequisite: College physics (one year) and integral calculus.

Given only if there is sufficient demand.

***Physics 11a or R11a. Wave Motion and Introduction to Modern Physics.** Three hours' lecture and recitation. 3 points either session. PROFESSOR VON NARDROFF.

Tu., Th., and S. at 11. 329 Pupin.

This course is the same as **Physics 11 or R11* but without the laboratory.

***Physics 59. Light.** Two hours' lecture and one laboratory period weekly. 3 points. PROFESSOR RAINWATER and Assistants.

Lecture: W., 4:10-6. 428 Pupin.

Laboratory: Hours to be arranged.

A course in general optics. The first part is devoted to geometrical optics; later, topics in physical optics will be discussed and illustrated.

Prerequisite: General physics and integral calculus.

Immediately after registration, students should consult PROFESSOR HAYNER, 624 Pupin, about laboratory schedule.

***Physics 63-64. Mechanics.** 6 points. PROFESSOR VON NARDROFF.

M., W., and F. at 9. 428 Pupin.

An introduction to analytical mechanics.

Prerequisite: General physics and integral calculus.

***Physics 65-66. Theory of Electricity and Magnetism.** 3 points Winter Session; 4 points Spring Session. PROFESSOR KROLL.

Lectures: Tu., Th., and S. at 9. 428 Pupin.

Laboratory: One afternoon each week in Spring Session. Hours to be arranged.

A discussion of the basic electromagnetic phenomena and the application of analytic methods to their description. Subjects discussed will include electrostatics, electrical and magnetic properties of matter, thermionic emission and elementary electronics, alternating current circuit theory, transmission lines, and the application of Maxwell's equations to the propagation of electromagnetic waves.

Prerequisites: General Physics and integral calculus. *Mathematics 33* to be taken concurrently.

***Physics 66a. Theory of Electricity and Magnetism.** 3 points. PROFESSOR KROLL.

Tu., Th., and S. at 9. 428 Pupin.

This course is the same as **Physics 66* but without the laboratory. Students who have completed **Physics 7* and **Physics 8* should register for this course instead of **Physics 66*.

***Physics 80. Laboratory Work in Atomic and Nuclear Physics.** 1 or 2 points. PROFESSORS HAYNER and HAVENS.

One or two afternoons each week. Hours to be arranged by the instructor.

Laboratory sections: Tu., 1:10-5; W., 6:30-10:30 p.m.; Th., 1:10-5; F., 1:10-5; S., 9-1. 602-636 Pupin.

Selected experiments in atomic and nuclear physics.

This course may be taken only parallel to or following either **Physics 116* or **Physics 140*.

Admission only with permission of the instructor.

Registration is limited in number to the capacity of the laboratory.

GRADUATE COURSES

For further information consult the Announcement of the Faculty of Pure Science.

***Physics 113. Thermodynamics.** 3 points. PROFESSOR BOORSE.

Th., 2-4.

***Physics 115-116. Atomic Physics and Introductory Quantum Mechanics.** 3 points each session. PROFESSOR STEINBERGER.

M., W., and F. at 1.

***Physics 117-118. Alternating-Current Circuits and Electronics.** 3 points each session. PROFESSOR WEBB.

M., W., and F. at 10.

***Physics 125. Vector and Tensor Analysis.** 3 points Winter Session. PROFESSOR QUIMBY.

M., W., and F. at 11.

***Physics 127-128. Introduction to Theoretical Physics.** 3 points each session. DR. SACHS.

M., W., and F. at 11.

***Physics 140 or R140. Radioactivity and Physics of the Nucleus.** 3 points either session. DR. WU (Winter Session). PROFESSOR HAVENS (Spring Session).

Tu. and Th., 11-12:30.

PSYCHOLOGY

RICHARD PARDEE YOUTZ, Ph.D., Professor of Psychology,
Executive Officer

¹S. STANSFELD SARGENT, Ph.D., Associate Professor of Psychology

BERNICE M. WENZEL, Ph.D., Assistant Professor of Psychology

MARGARET R. BENEDICT, Ph.D., Instructor in Psychology

DONALD COOK, A.M., Instructor in Psychology

WENDELL E. JEFFREY, Ph.D., Instructor in Psychology

PAULA WELTZ, A.B., Assistant in Psychology

ALICE S. HONIG, A.B., Assistant in Psychology

¹ Absent on leave during 1951-52.

A major in psychology. Students majoring in psychology will be required to take:

Psychology. Courses 1 or R1, 7-8, and the additional points with the advice of the department. All students should plan to include *Courses 9 and 12.* Only in exceptional cases will a student be excused from one or both.

Other fields. One course in philosophy (3 points); one year laboratory course (8 points) in zoölogy, chemistry, or physics¹; and an organized program in other fields to be arranged in consultation with the department.

The Major Examination. The major examination in psychology customarily consists of sections on: (1) General information and integration (2 hours); (2) Experimental structures and techniques (1 hour); and (3) Areas of special interest (1 hour). Students fulfilling the major requirements will have completed preparation for the major examination.

Suggested groups of courses:

Courses 9, 12, 21, 26, 27, 28, 37 make a good grouping for students interested in clinical work or education.

Courses 9, 12, 21, 24, 26, 27, 28, 37 meet the interest of students in the social sciences, social work, business, and practical affairs.

Courses 9, 12, 21, 25, 48, 58, 68 constitute a good background for more advanced work in psychology and related fields.

1 (or R1). Introduction to Psychology. 4 points either session. DR. BENEDICT, MR. COOK, and DR. JEFFREY.

Winter Session: 1—M., W., and F. at 10 (I, II). Tu. at 11 and Th., 10-12 (III).

Spring Session: R1—M., W., and F. at 10 (I, II). Tu. at 11 and Th., 10-12 (III).
[11]

An introduction to the chief facts, principles, and problems of normal adult psychology, through systematic study of a text, lectures, exercises, and reading in special fields. This course is prerequisite for all other courses in psychology and in education.

7-8. Experimental Psychology. 8 points. PROFESSOR WENZEL, DR. BENEDICT, MR. COOK, and DR. JEFFREY.

M. and W., 1-4 (I) limited to 18 students. M. and W., 1-4 (II) limited to 16 students. Tu. and Th., 2-5 (III) limited to 18 students. Tu. and Th., 2-5 (IV) limited to 16 students. [11]

The course presents the chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology.

Prerequisite: *Course 1* or the equivalent. (Written permission required for specific section.)

9. Introduction to Statistics. 3 points. DR. BENEDICT.

M., W., and F. at 11. [3]

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction.

Prerequisite: *Course 7-8.*

12. Psychological Tests. 3 points. PROFESSOR WENZEL.

Tu. at 2 and Th., 1-4. [9]

An introduction to standardized scales of mental measurement through demonstration of their nature, use, and interpretation, and practice in their administration. Each student must arrange to bring at least one child to the college for examination for at least one afternoon laboratory period.

Prerequisite: *Course 7-8.*

¹ Starting with the Class of 1952; until then any 8-point laboratory science fulfills the requirement. A laboratory course in biology will fulfill requirements for transfer students.

21. Abnormal Psychology. 3 points. PROFESSOR YOUTZ.

Tu. and Th. at 10, and consultations in connection with readings for the third point. [7]

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance and their psychological interpretation, including the principles of mental hygiene and psychotherapy.

Open to juniors and seniors who have had Psychology 1 (or R1) and one or more additional courses in psychology.

24. Applied Psychology. 2 or 3 points. PROFESSOR YOUTZ.

Tu. and Th. at 11, and additional conferences on a project or paper for the third point. [8]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, detection and treatment of delinquents and criminals, and other problems of practical interest.

Prerequisite: *Course 1* or the equivalent.

25. Physiological Psychology. 3 points. PROFESSOR WENZEL.

Tu. at 9 and at 11 and Th. at 11. [8]

A study of the relationships between physical structure and psychological functions. Emphasis will be placed on phenomena of sensation and perception, but attention will also be given to principles of neural action, learning and retention, thinking, and speech.

Prerequisite: *Course 1* or the equivalent plus one of the following: *Course 7-8, Zoölogy 1-2, or Zoölogy 9-10.*

26. Psychology of Personality. 3 points. DR. BENEDICT.

M. and W. at 9, and consultations in connection with a paper for the third point. [1]

A survey of the contemporary methods and views of the description of the individual, including the factors in the development of personality and the practical aspects of personal adjustment in changing society. Attention is given to the contributions from experimental psychology.

Prerequisite: *Course 1* or the equivalent.

27. Psychology of Childhood. 4 points. DR. JEFFREY.

M., W., and F. at 10, and consultations in connection with reports for the fourth point. [2]

A detailed study of the practical problems of infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week.

Prerequisite: *Course 1* or the equivalent.

28. Psychology of Adolescence and Maturity. 3 or 4 points. DR. JEFFREY.

M., W., and F. at 10, and consultations in connection with a project or paper for the fourth point. [2]

The mental, social, moral, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation, delinquency, and citizenship.

Prerequisite: *Course 27.*

37. Social Psychology. 3 or 4 points. PROFESSOR ARENSBERG and MR. COOK.

M., W., and F. at 3, and conference hour on a project or paper for the fourth point. [10]

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social rôles and social interaction; social-psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change, and social conflicts. Contributions from psychology, sociology, anthropology, and psychiatry toward a systematic and useful integration in the field of social relations.

May count toward either a sociology or a psychology major. Prerequisite: *Course 1* or *Sociology 1-2.*

47. Advanced Experimental Problems. 3 points. PROFESSOR YOUTZ.

Hours to be arranged. [11]

Individual or joint investigations will be planned and undertaken in learning, reasoning, perception, and related topics. Designed chiefly for students who intend to do graduate work in psychology or related fields or who show interest and capability in the conduct of research.

Open on written permission of the instructor to students who have had *Course 7-8*.

48. Individual Projects. 1, 2, or 3 points. PROFESSORS YOUTZ and WENZEL, and DR. BENEDICT, MR. COOK, and DR. JEFFREY.

Hours to be arranged. [11]

Qualified students will be guided and supervised in special projects or in the investigation of approved problems.

Open on written permission of the instructor only to major students who have had *Course 7-8*.

[58. Systematic Psychology. 3 points. PROFESSOR SARGENT.*Not given in 1951-52.]*

A critical survey of influential psychological viewpoints, schools, and trends, both historical and contemporary. Representative topics are discussed by the instructor with the aim of achieving a systematic interpretation. During the second half of the course students report on outstanding psychologists and psychological contributions at home and abroad.

Prerequisite: *Course 7-8*.

108. Development of Psychological Concepts. 3 points. PROFESSOR YOUTZ.

Tu. and Th. at 10, and consultation in connection with a report for the third point.

[7]

A critical analysis of stages in the development of psychological concepts. Consideration of kinds of experiments in psychological schools and systems. Discussion of criteria for the classification of investigations into the appropriate stage of development. Each student will choose an area of interest and report on its origins and present status.

Prerequisite: *Course 7-8*.

RECREATIONAL LEADERSHIP

MARGARET HOLLAND, A.M., Associate Professor of Physical Education, and CORINNE T. BIZE, A.M., Instructor in Physical Education, and members from the Departments of Sociology and Psychology. Outside agencies which specialize in the fields of music, crafts, and story-telling also contribute to this course.

1 or R1. Introductory Course. 2 points.

M. and W. at 4. Additional hours arranged for field work.

This course is planned to give students an intelligent understanding and appreciation of the whole field of recreation. It consists of lectures, discussions, practice and participation in recreational activities such as community music, arts and crafts, informal dramatics, story-telling, games, and other informal social activities.

Volunteer field work prescribed in *Psychology 27, 28* and *Sociology 22* may be accepted in this course.

Participation in extracurricular activities which are related to recreation and social work is especially recommended for practice and experience.

RELIGION

URSULA M. NIEBUHR, S.T.M., M.A. (Oxon.), Associate Professor
of Religion, *Executive Officer*

JAMES A. PIKE, B.D., J.S.D., Chaplain of the University, *Executive
Officer of the Department of Religion, Columbia University*

JOHN E. SMITH, B.D., Ph.D., Assistant Professor of Religion

EDMOND LA B. CHERBONNIER, B.D., Ph.D., Assistant Professor of
Religion

- ¹JOHN DILLENBERGER, B.D., Ph.D., Assistant Professor of Religion
¹OTIS R. RICE, JR., B.D., Associate in Religion
¹FREDERICK SCHUMACHER, B.D., Associate in Religion
¹DARBY W. BETTS, S.T.M., Lecturer in Religion
¹GEORGES FLOROVSKY, Ph.M., S.T.D., Associate in Religion
¹MOSES JUNG, Ph.D., Lecturer in Religion
¹ROBERT GORDIS, M.H.L., Ph.D., Lecturer in Religion
¹WILLIAM R. O'CONNOR, S.T.L., Ph.D., Lecturer in Religion
¹PAUL TILlich, Ph.D., D.Theol., D.D., Lecturer in Religion
¹EDWARD A. DOWEY, JR., B.D., A.M., Th.D., Lecturer in Religion

A major in religion. Students majoring in Religion will be required to take 28 points in their subject. With the written permission of the department, students may offer not more than 6 points from the related courses such as those listed below:

Anthropology 14	p. 71
English 66	p. 84
Fine Arts 51, 52, 65, 66	p. 87
Government 31, 32	p. 101
Greek & Latin 66	p. 103
*History 5, 6	p. 106
Italian 19, 20	p. 110
Philosophy 22	p. 118
" 43	p. 119
" 61-62	p. 119
" 70	p. 120

1-2. Introduction to Religion. 6 points. Lectures by Members of the Departments of Religion, Barnard and Columbia.

Lecture period: M., 8:25-9:40 p.m. *Conference period:* Th. at 2:10.

An introduction to the study of religion, its nature, and relation to the other disciplines. The course includes a survey of the main motifs of the Old Testament and the development of the main streams of Judaism, a sketch of New Testament thought and the subsequent development of Christianity, and a survey of the chief religious traditions of the East.

4. Religious Roots of Western Thought. 2 points. PROFESSOR NIEBUHR.

Th., 2-4. [9]

Concepts which have shaped the tradition and institutions of Western civilization, and their derivation from the great ideas of the Bible. Discussion of man, his nature and freedom; his ethical ideals and their non-realization; history and the problem of its fulfillment.

5. Elements of Christianity. 2 points. DR. PIKE (I) and MR. BETTS (II).

Tu. and Th. at 10 (I). M. and Th., 7-8:15 p.m. (II).

Christianity as a body of empirical data, as a philosophy, as a religion. Revelation, faith, and reason. The beginnings and development of the Church. A survey of Christian doctrines of God, man, sin, Christ, salvation, the Holy Spirit, the Church, and the sacraments.

7. Elements of Judaism. 2 points. DR. GORDIS.

W., 4:10-6.

A survey of the basic tenets of Judaism, its world view and way of life, including an examination of the nature and relation of thought and practice in Conservative, Orthodox, and Reform Judaism.

Officer of Columbia University offering courses open to Barnard students.

9, 10. The Bible. 6 points. Conference hour to be arranged for sections I and II. MR. SCHUMACHER (I) and (III) and PROFESSOR NIEBUHR (II).

Tu. and Th. at 9 (I). Tu. and Th. at 11 (II). W., 7-9:30 p.m. (III).

The history, literature, and interpretation of the Old and New Testaments.

Winter Session: The beginnings and nature of Hebrew religion. Myths of the ancient world. Stories of the patriarchs. Moses and the Covenant. The development of the nation. The character and significance of the prophetic movement. The exile and subsequent religious developments. The rise of the priestly tradition. Apocalyptic and wisdom literature. Political and religious factors to New Testament times. *Spring Session:* How the Gospels came into existence and the content of the early Christian belief. The letters and thought of St. Paul. The Book of Acts and spread of Christianity. The gospel in the gentile world. Persecutions and heresies. New Testament writings.

19-20. The Philosophy of Religion. 6 points. PROFESSOR SMITH.

M. and W. at 3, and conference hour. [10]

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen. *Religion 4* is recommended.

Prerequisite: *Philosophy 1*.

22. Oriental Religions. 2 points. PROFESSOR FRIESS.

Tu. and Th. at 2:10. [9]

An introduction to the institutions, arts, and philosophies connected with the major religious traditions native to India, China, and Japan; Hinduism, Buddhism, Confucianism, Taoism, and Shintoism. Recent developments in religion conditioned by the meeting of Eastern and Western civilization will be given attention.

24. Christian Ethics. 2 points. PROFESSOR CHERBONNIER (I) and MR. BETTS (II).

Tu. and Th. at 10 (I). M. and Th., 7-8:25 p.m. (II).

The sources of Christian values and norms of behavior. Personal morality. Marriage and the family. Social ethics; implications for the political and economic order.

25. Religious and Ethical Issues in Contemporary Life and Culture. 3 points. PROFESSOR CHERBONNIER.

Th., 2-4. [9]

The resources of religion, particularly the ethical norms of the Bible, in relation to political, social, economic, and intellectual problems of today. Special areas of consideration include: the historical development of democracy and nationalism, and the relation of religious forces and presuppositions to that development; the struggle for social and economic justice and the variety of religious positions thereupon; the ethics of social change and various religious answers thereto.

Open to all except freshmen.

31. Religious Interpretations of History. 3 points. PROFESSOR CHERBONNIER.

M., W., and F. at 11. [3]

The meaning of human history as interpreted by religious thought of the East and West, including the contribution of the Hebrew prophets and the Christian tradition.

35, 36. Special Reading. 2 or 4 points. PROFESSORS NIEBUHR and DILLENBERGER, DR. PIKE, and Associates.

Conference hours to be arranged. [0]

Readings from religious classics and from other important works bearing on the individual student's particular line of study in conjoined courses.

For majors in religion. Open to others by special permission only in connection with other work in religion.

40. The Prophets and Sages of Israel. 2. points. MR. SCHUMACHER.

Tu. and Th. at 11. [8]

A more specialized study of the prophetic and wisdom literature of the Old Testament, with emphasis on the particular contributions to Biblical thought made by the various representatives of the two groups in respect to such problems as the conception of God, man, and history.

Religion 9, 10 or equivalent recommended as prior background.

[42. The Writings and Thought of St. Paul and the Johannine Literature. 2 points. MR. SCHUMACHER.

Not given in 1951-52.]

An analysis of the letters of Paul, the Gospel of John and the Johannine letters, with special attention to the understanding of God, Christ, sin, redemption, and similar concepts as related to Old Testament roots and to the contemporary Greek world.

Religion 9, 10 or equivalent is recommended.

43-44. The Historical Background and Early Beginnings of Christianity. 6 points. PROFESSOR NIEBUHR.

Tu. and Th. at 9, and conference hour to be arranged. [6]

A study of the historical, philosophical, and religious background of Christianity. The world into which it came. Hellenism and Judaism of the pre-Christian era. Answers to the quest for salvation. Forms of the Christian answer in the first centuries. Their relation to contemporary thought. The Greek and the Latin tradition in the Church.

Winter Session: Post-exilic Judaism. Graeco-Roman culture. The religious and philosophical systems of Hellenism. The Christian gospel of the New Testament. *Spring Session:* The developing gospel. Early writers in the Church; their purpose and relation to the thought of their age. Controversies and heresies. The great formulators of Christian thought to Augustine.

53. A Survey of Eastern Orthodox Theology. 3 points. DR. FLOROVSKY.

M. and Th., 7-8:15 p.m.

The foundations in thought of the spiritual life of the Orthodox Church. The historic background and present state of the Orthodox Churches and their impact on the cultural life of the nations concerned. The development of Orthodox theology and the formation of the principal liturgies.

55. A Survey of Roman Catholic Theology. 3 points. DR. O'CONNOR.

Tu. and F., 7-8:15 p.m.

After an introduction to the nature, scope, and sources of theology, the following topics will be discussed: God, the Trinity, Creation, the Incarnation, Redemption, the Doctrine of the Church, grace, the sacramental system, and eschatology. The doctrines will be presented in their historical background; at the same time their connection with the liturgy and devotional life of the Church will be considered.

56. A Survey of the Theology of the Protestant Churches. 2 points. PROFESSOR DILLENBERGER.

W., 1:10-3. [4]

An exposition of the nature of the religious ideas which underlie the emergence and development of the Lutheran, Reformed, Presbyterian, Anglican, Congregational, Methodist, Baptist, and other churches and their relationship to current ecumenical efforts.

57, 58. History of Religion in America. 6 points. PROFESSOR HARRINGTON.

M., W., and F. at 2. [5]

The history of religious thought and institutions in the United States.

Winter Session: The religious backgrounds of the colonists and the impact of the American milieu upon their views of church organization, relations between church and state, religious toleration; their social, economic, and political ideas. The effect of the Calvinist revival in the eighteenth century, the Great Awakening and the Enlightenment, the churches and the Revolution.

Spring Session: The challenge of the West and the contributions of the new immigration; Transcendentalism and the Oxford Movement; the new American sects. The churches and social reform movements; the impact of science and Biblical criticism; fundamentalism, liberal Protestantism, and the contemporary revival of classical Christianity. The current intensification of the problems of church and state.

105, 106. History of Religious Thought in the Christian West. 6 points. PROFESSOR DILLENBERGER.

Tu. and Th., 2:10-3:30. [9]

An exposition and analysis of the thought of theologians and movements in the context of the history of the Western world. Emphasis will be placed upon the formation and historical influence of religious ideas within the Christian movement and upon their relation to the cultural forces of the time. Reading from the writings of the theologians, including early Fathers, medieval theologians and the Reformers, liberal and contemporary theologians.

Prerequisite: Introductory religion or philosophy or equivalent. Junior or senior standing.

111-112. Living Religions of Mankind. 6 points. DR. JUNG.

M., 4:10-6.

Study of those religions which have large numbers of living adherents. *Winter Session:* Hinduism, Buddhism, Confucianism, Shintoism. *Spring Session:* Mohammedanism, Judaism, and Christianity. Special attention is given to the manner in which these groups attempt to solve the various problems, cultural and social, which they face in our modern world. An attempt is made to bring in an informed and sympathetic representative of each religion under discussion, for at least one lecture.

115. The Psychology of Christian Personality. 3 points. MR. RICE.

Tu., 6:30-8:15 p.m.

The developmental life of the individual with a study of the factors making for Christian personality.

116. Inter-personal Relationships in the Family and Marriage. 3 points. MR. RICE.

Tu., 6:30-8:15 p.m.

Religious, ethical, and psychological factors in marriage and sex; inter-personal and community relationships.

117-118. History of Religious Thought in the Christian East. 6 points. DR. FLOROVSKY.

M. and Th., 8:25-9:40 p.m.

The formation of Christian Hellenism and its philosophical implications. Various theological schools in the East and the development of doctrine in the period of the ecumenical councils. The thought of major theologians in the East. The nature of Byzantine civilization and spirituality, including its philosophical significance. The destiny of Orthodox thought after the fall of Constantinople. Contemporary trends.

120. The Historical Background of Modern Jewish Thought and Movements. 3 points. DR. GORDIS.

W., 6:30-8:10 p.m.

Following a brief survey of the principal contributions to the Biblical, Talmudic, and Medieval periods in the Jewish religion, this course will trace the significance of the Enlightenment and Jewish emancipation for modern movements in Judaism and the status of the major Jewish communities. Zionism as a religious and historical movement. Judaism and the future.

124. Dominant Motifs in Thomistic Theological Thought. 3 points. DR. O'CONNOR.

Tu. and F., 7-8:15 p.m.

An exposition and critical analysis of the following aspects of the thought of St. Thomas Aquinas and related thinkers: faith and reason, the nature of God and Christ, the Anselmic and Thomistic understanding of redemption, structural implications of life under God, the destiny of man.

126. Formative Motifs in Protestant Thought. 3 points. DR. TILlich.

W., 7-8:40 p.m.

An analysis and evaluation of major aspects of Protestant thought. The sources and development of principal motifs in modern Protestantism and their relationship to secular and cultural forces of the modern world. The rise of divergent trends with consideration of their relationship to various ecumenical movements.

130. History of Russian Religious and Philosophical Thought. 3 points. DR. FLOROVSKY.

M. and Th., 7-8:15 p.m.

The Byzantine tradition and its encounter with the West. Philosophical currents and religious philosophy from the 17th century to the present, including the influence of the western Enlightenment and the Pietist tradition, the conflict between positivism and metaphysics, and the problems of Marxism.

SEMINAR COURSES

[81, 82. Symposium, *Interpreters of Life*. 3 points each session.

Not given in 1951-52.]

The course assembles major historians, poets, and philosophers whose works are great commentaries on western life and institutions. The aim is to introduce students to a wide range of ideas through primary sources basic for later studies of society and culture, as well as of religion and philosophy.

[83, 84. Senior Seminar.

Not given in 1951-52.]

This course is designed primarily for the examination of religious problems on the part of those whose preparation justifies a more advanced level.

Open only to senior majors and to those whose backgrounds and special training warrant inclusion. Except in the case of senior majors, permission must be obtained from the respective executive officers.

210. Seminar in Legal and Religious Aspects of Church-State Relations in the United States. 2 points. DR. PIKE and PROFESSOR DOWLING.

Hours to be arranged. [0]

Analysis of contemporary issues in Church-State relations in the light of (1) the relevant theological positions, policies, and attitudes of the several Churches; (2) judicial interpretation of the provisions of the Constitution of the United States and of the Constitutions of the States relating to the separation of Church and State; and (3) existing and proposed Federal and State legislation.

SOCIOLOGY

MIRRA KOMAROVSKY, Ph.D., Associate Professor of Sociology,
Executive Officer

CONRAD M. ARENSBERG, Ph.D., Associate Professor of Sociology
GLADYS MEYER, Ph.D., Assistant Professor of Sociology

A major in sociology. Students majoring in sociology will be required to take:

Economics 1-2, 17 and other courses which will vary with the interests of the student. Only one introductory course may count toward the major.

Major examination: a three-hour written examination in addition to the Graduate Record Examination.

Other social sciences. In view of the essential unity of the social sciences, every student majoring in sociology is required to take courses amounting to at least 12 points to be distributed at will among at least two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also *Other Interdepartmental Majors*, page 68.

1-2. Introduction to Sociology. 6 points. PROFESSORS ARENSBERG, KOMAROVSKY, and MEYER.

M., W., and F. at 11. [3]

Social structure and dynamics: social behavior, culture, group formation, social change. The structure of communities, social segmentation and stratification. The functions of social institutions; the processes of social interaction; the interdependence of social groups. Social factors in contemporary problems such as changes in family institutions, group conflicts, race relations, migration and population growth, community disorganization, crime, neurosis. Programs of social reorganization.

Open to all except freshmen.

21-22. Introduction to Social Work. 6 points. PROFESSOR MEYER.

Th., 3-5 and a third hour for field work. [12]

The social and economic situations which lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in philosophy and

policy of social work. Field work for one-half day a week is required and placements are arranged in approved social agencies offering supervision.

Open to juniors and seniors. Prerequisite: *Sociology 1-2, Economics 1-2, Psychology 1-2*, or the permission of the instructor. Course 22 may not be taken apart from 21 except by senior sociology majors.

31. The Family. 3 points. PROFESSOR KOMAROVSKY.

Tu., 2-4 and Th. at 2. [9]

General study of the contemporary American family, dealing with social interaction at successive stages of family life, from courtship through parenthood and old age. Changing courtship mores, social and personality factors in mate selection. The marriage relationship, factors in marriage adjustment and maladjustment. The problems of modern women. The child in the family, the family as a cradle of personality. Regional, ethnic, and class variations in family patterns. Family disorganization and divorce. Programs for family reorganization.

Open to juniors and seniors.

33. The Community I. Rural-Urban Sociology. 3 points. PROFESSOR ARENSBERG.

M., W., and F. at 2. [5]

The growth and structure of the community. Forms of the community in rural and urban life. Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad.

Prerequisite: *Sociology 1-2*.

34. The Community II. Population, Ethnic and Minority and Intergroup Relations. 3 points. PROFESSOR MEYER.

M., W., and F. at 3. [10]

The composition and distribution of populations; majority and minority groups, and their intergroup relations, particularly within the United States. The rôle of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment.

Prerequisite: *Sociology 1-2*.

35. Urban Social Stratification. 3 points. PROFESSOR MEYER.

M., W., and F. at 3. [10]

Levels of living in large cities, the meaning of social status, individual and group adjustments to changes in social status. Special attention to the size, significance, and ways of living of unskilled and semi-skilled occupational groups, in prosperity and in depression. Individual projects and field trips.

Prerequisite: *Sociology 1-2*.

38. Comparative Social Institutions. 3 points. PROFESSOR ARENSBERG.

M., W., and F. at 2. [5]

Patterns of social organization in several contemporary cultures (material to be drawn from America, Europe, and Asia). Internal dynamics of institutions; forms of association; problems of bureaucratization and professionalization. Shifts of function among institutions and changes in their rôles in the control of attitudes and behavior in the community.

Prerequisite: *Sociology 1-2*.

41. Recent Sociological Theories. 3 points. PROFESSOR KOMAROVSKY.

M., W., and F. at 10. [2]

A critical appraisal of the works of some American and European sociologists, particularly as they bear on the problems of social change and social movements.

Prerequisite: *Sociology 1-2*.

42. Social Problems and Social Movements. 3 points. PROFESSOR KOMAROVSKY.

M., W., and F. at 10. [2]

The natural history of social problems. Some selected social problems will be traced from their emergence through the various stages of social reform. The social and psychological aspects of social movements. Types of resistances to social reform. Techniques of social reform. The course will draw upon historical material as well as the study of some contemporary reform movements. Individual field work projects.

Prerequisite: *Sociology 1-2*.

97, 98. Sociology Seminar. 4 or 6 points. PROFESSORS ARENSBERG, KOMAROVSKY, and MEYER.

Hours and subjects to be arranged. [0]

Open only to senior majors on written permission of the instructors.

Psychology 37. Social Psychology. 3 or 4 points. PROFESSOR ARENSBERG and MR. COOK. M., W., and F. at 3. With additional conference hour, 4 points. [10]

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social rôles, and social interaction. Social psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change and conflict. Contributions from psychology, sociology, anthropology, and psychiatry toward a systematic and useful integration of the field of social relations.

Credit in either sociology or psychology. Prerequisites: *Psychology 1* or *R1* or *Sociology 1-2*.

GRADUATE COURSES

134. Recent Trends in Family Research. 3 points. PROFESSOR KOMAROVSKY.

Tu., 2:10-4. [9]

This course will deal with the recent developments in family theory and research in sociology and related disciplines. Representative studies will be examined and research trends assessed.

Open to specially qualified seniors. (See page 27.)

197-198. Sociology of Industry. 6 points. PROFESSOR ARENSBERG.

W., 4:10-6.

Inductive discovery, description and interpretation from case materials of social relations fundamental to problems in organization, production, management, and labor relations in industrial and in comparable complex institutions.

Open to specially qualified seniors. (See page 27.)

In addition to *Sociology 134* and *197-198*, certain other graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Political Science.

SPANISH

AMELIA A. DE DEL RÍO, A.M., Associate Professor of Spanish,
Executive Officer

EUGENIO FLORIT, LL.D., Assistant Professor of Spanish

MARGARITA DACAL, Ph.D., Assistant Professor of Spanish

LAURA R. DE GARCÍA-LORCA, L.F.L., Instructor in Spanish

A major in Spanish. Students majoring in Spanish will be required to take:

Spanish. Courses 3, 4, 13, 14, 15a-16a, 19, 22, and 23-24; and either 17-18, 25-26, 27-28, or a more advanced course to be chosen in consultation with the department.

Other fields. Courses will vary with the special interest of the student and should be arranged in consultation with the department.

LANGUAGE COURSES

1-2. Elementary Full-Year Course. 8 points. PROFESSOR DACAL, MRS. GARCÍA-LORCA, and MRS. ESCOBAL.

M., Tu., W., Th., and F. at 9 (I), at 2 (II). [17]

Grammar, reading, conversation.

Cannot count toward a major in Spanish and may not be taken parallel to *Italian 1-2*.

3, 4. Intermediate Course. 6 points. PROFESSORS DEL RÍO and DACAL.

M., W., and F. at 9 (I), at 1 (II). [17]

A rapid review of grammar and syntax, conversation, and reading and discussion of important works in Spanish and Spanish American literatures.

3a. Intermediate Course in Grammar and Composition. 3 points. MRS. GARCÍA-LORCA.

M., W., and F. at 11. [3]

The equivalent of *Course 4* given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written translation.

4a. Advanced Course in Grammar and Composition. 3 points. MRS. GARCÍA-LORCA.

M., W., and F. at 11. [3]

Emphasis on original composition and translation from Spanish into English.

Prerequisite: *Course 3a* or *4*.

5, 6. Spanish Composition. 4 points. DR. FLORIT.

Tu. and Th. at 11. [0]

Study of the style of modern authors, oral and written composition, and original writing of short stories, short plays, and essays.

Prerequisite: *Course 3, 4* or *4a*.

5x, 6x. Spanish Composition. 4 points. PROFESSOR DACAL.

Tu. and Th. at 11. [0]

Rapid review of grammar and intensive translation from Spanish into English; sight reading and prepared translation.

Prerequisite: *Course 3, 4* or *4a*.

9-10. Intermediate Spanish Conversation. 2 points. MRS. ESCOBAL.

Tu. at 3 (I), Th. at 1 (II), and at 3 (III). [13]

Open only to students taking another Spanish course, either semester.

11-12. Advanced Spanish Conversation. 2 points. PROFESSOR FLORIT.

Th. at 1 (I) and at 2 (II). [0]

Discussion and reports on Spanish subjects.

Prerequisite: *Course 9-10*. Open only to students taking another Spanish course, either semester.

31-32. Oral Spanish, Advanced Course. 4 points. PROFESSOR DEL RÍO and other Members of the Department.

Two hours of class, and one of conference. Hours to be arranged. [0]

Discussion based on readings of outstanding works of Spanish literature, reports on varied subjects, recitation of representative poetry.

Prerequisite: *Course 3, 4, or 3a, 4a*, or with permission of instructor.

LITERATURE COURSES¹**13, 14. The Culture of the Spanish Countries.** 4 points. PROFESSOR FLORIT and MRS. GARCÍA-LORCA.

Tu. and Th. at 10. [7]

Winter Session: The history and culture of Spain. *Spring Session:* The development of Spanish American culture.

Prerequisite: *Course 3, 4* or *5, 6*.

¹ All courses are conducted entirely in Spanish.

15-16. Introduction to Spanish Literature. 6 points. PROFESSOR DACAL and MRS. GARCÍA-LORCA.

M., W., and F. at 10 (I), and at 11 (II). [17]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors.

Prerequisite: *Courses 3, 4 or 3a, 4a, or 5, 6.*

15a-16a. Spanish Literature. 6 points. PROFESSOR DEL RÍO.

M., W., and F. at 10. [2]

Spanish literature from its origins to the end of the 18th century, with emphasis on Cervantes.

Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken *Spanish 15-16.*

Prerequisite: *Courses 3, 4 or 3a, 4a, or 5, 6.*

17-18. The Spanish Drama of the Golden Age. 6 points. PROFESSOR DEL RÍO.

M., W., and F. at 11. [3]

Winter Session: Reading and discussion of the medieval antecedents and the sixteenth-century theatre, including Lope de Vega. *Spring Session:* The theatre after Lope de Vega with emphasis on Calderón.

Prerequisite: *Course 15-16.*

19. Nineteenth Century Novel. 3 points. PROFESSOR DACAL.

Tu. and Th. at 2. [9]

Prerequisite: *Course 13, 14 or 15-16 or the written permission of the department.*

22. Contemporary Spanish Literature. 3 points. PROFESSOR DEL RÍO.

Tu. and Th. at 2. [9]

A study of outstanding authors from 1898 to the present day.

Prerequisite: *Course 13, 14 or 15-16 or the written permission of the department.*

23-24. Spanish American Literature. 4 points. PROFESSOR FLORIT.

Tu. and Th. at 9. [6]

Lectures, reading, and reports on the history of Spanish literature up to the present time.

Prerequisite: *Course 13, 14 or 15-16 or the written permission of the department.*

[25-26. Cervantes. 6 points. PROFESSOR DEL RÍO.

Not given in 1951-52.]

Lectures, reading, and discussion of Cervantes' novels and theatre.

Prerequisite: *Course 15-16.*

[27-28. Spanish Poetry. 6 points. PROFESSOR FLORIT.

Not given in 1951-52.]

A study of the development of the poetry of Spain from its origin to the present time.

Prerequisite: *Course 15-16.*

29, 30. Special Reading. 4 points. PROFESSORS DEL RÍO, FLORIT, and DACAL and MRS. GARCÍA-LORCA.

Hours to be arranged. [0]

Discussion on assigned readings to coördinate and supplement the work done in other courses.
Open only to seniors.

A course in Spanish shorthand will be offered without charge to Spanish majors. No credit.

Hours to be arranged.

ZOÖLOGY

JOHN A. MOORE, Ph.D., Professor of Zoölogy,
Executive Officer

AUBREY GORBMAN, Ph.D., Associate Professor of Zoölogy

INGRITH J. DEYRUP, Ph.D., Assistant Professor of Zoölogy

EDWARD S. HODGSON, Ph.D., Instructor in Zoölogy

A student majoring in zoölogy should aspire to knowledge of the morphology and physiology of animals, the interrelationships of animals with one another and with the inanimate world, and the bearing of this study upon the problems of living organisms in general. In addition, a major in zoölogy should lead to an appreciation of the principles and objectives of modern biological research.

A major in zoölogy. Students majoring in zoölogy will be required to take:

Zoölogy. Course 1-2, 3, 14 and 15 and additional courses to total 28 points. In general, it is recommended that students take *Zoölogy 3* immediately after completing *Zoölogy 1-2*.

Other fields. The work will vary with the special interests of the student, and should be arranged in consultation with the major department. If a student plans to enter medical school or to undertake graduate work in zoölogy, she should take a year of physics, and chemistry courses including introductory, analytic, and organic chemistry. If possible, either French or German should be taken in fulfillment of the language requirement.

Transfer students should consult a member of the Department to plan a program that will integrate any zoölogy (or biology) courses taken elsewhere with the Barnard offerings.

Students are encouraged to do summer work at zoölogical laboratories such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

1-2. General Zoölogy. 10 points. PROFESSOR MOORE and ASSISTANTS.

Lectures: M., W., and F. at 9.

Laboratory (4 hours): M. and W., 1-3 (I), 3-5 (II); Tu. and Th., 2-4 (III); F., 1-5 (IV). [1]

An elementary course covering the general characteristics of living organisms, the major invertebrate phyla, the important parasites of man, the structure and development of the vertebrates, human physiology, heredity, and evolution.

1a-2a. General Zoölogy. 6 points. PROFESSOR MOORE.

M., W., and F. at 9. [1]

Lectures identical with those of 1-2. No laboratory work.

To follow or parallel a laboratory science.

3. A Study of Biological Concepts. 4 points. PROFESSORS MOORE, DEYRUP, GORBMAN and DR. HODGSON.

Lectures: Tu. and Th. at 9.

Laboratory (4 hours): F., 1-5. [6]

An historical survey will be made of discoveries in a specific field of biology and these will be analyzed as examples of the manner in which scientific knowledge is accumulated.

Prerequisite: *Course 1-2* or special permission.

[5. Evolution of Man. 3 points.*Not given in 1951-52.]*

A course which includes the study of the history of evolutionary thought, the paleontological evidence of man's origin, and his relationship to lower forms.

Prerequisite: *Course 1-2.*

7. Biology of the Invertebrates. 4 points. DR. HODGSON.

Lectures: Tu. and Th. at 10.

Laboratory (4 hours): F., 1-5. [7]

A study of physiological and morphological phenomena in the invertebrates with special emphasis on the fundamental biological problems that are best studied in these forms.

Prerequisite: *Course 1-2.*

8. Biology of the Vertebrates. 4 points. DR. HODGSON.

Lectures: Tu. and Th. at 10.

Laboratory (4 hours): F., 1-5. [7]

An intermediate course integrating morphological and physiological phenomena in the vertebrates.

Prerequisite: *Course 1-2.*

R13. Histology and Histological Methods. 5 points. PROFESSOR GORBMAN.

Lectures: Tu. and Th. at 9.

Laboratory and Conferences (6 hours): M., 1-5 or Tu., 1-5 and additional project hours at the student's convenience. [6]

14. Embryology. 4 points. PROFESSOR GORBMAN.

Lectures: Tu. and Th. at 11.

Laboratory (4 hours): W., 1-5 or Th., 1-5 [8]

An introductory study of the development of the vertebrate animal, with a consideration of some of the factors which influence development.

Prerequisite: *Course 1-2.*

15. General Physiology. 6 points. PROFESSOR DEYRUP.

Lectures: M., W., and F. at 10.

Laboratory (6 hours): M. and W., 2-5. [2]

A study of the physical characteristics, chemical composition and properties of protoplasm and of various cell components. Energy transformations, and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail.

61, 62. Problems in Zoölogy. PROFESSORS MOORE, GORBMAN, DEYRUP and DR. HODGSON.

Hours and credit by arrangement. [0]

Work will be planned to suit the needs of students after consultation with the instructors.

[71, 72. Seminar and Problems for Seniors. 4 points. PROFESSORS MOORE, GORBMAN, and DEYRUP.

Not given in 1951-52.]

[80. Parasitology. 4 points. PROFESSOR GORBMAN.

Not given in 1951-52.]

A study of animal parasites, with consideration of the host-parasite relationship. Laboratory study of representative protozoan, helminth, and arthropod forms.

Prerequisite: *Course 1-2.*

[121. Animal Ecology. 4 points. PROFESSOR MOORE.

Not given in 1951-52.]

A study of the interrelation between the organism and its environment. The field work will consist of a study of the local marine, terrestrial, and fresh water habitats.

Prerequisite: *Course 1-2;* a course in invertebrate zoölogy is recommended.

Written permission of the instructor required.

[130. Endocrinology. 4 points. PROFESSOR GORBMAN.

Not given in 1951-52.]

Lectures will deal with morphological, physiological, and biochemical phenomena associated with endocrine function. Laboratory will provide an introduction to some of the basic experimental procedures in endocrinology.

Prerequisite: *Courses 1-2 and 13.* Organic chemistry recommended. Written permission of instructor required.

[152. Physiology. 6 points. PROFESSOR DEYRUP.

Not given in 1951-52.]

General principles of vertebrate physiology.

Prerequisite: *Course 1-2* and organic chemistry. Written permission of the instructor required.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to specially qualified students. A description of these courses will be found in the Announcement of the Faculty of Pure Science. The following are recommended:

***Zoölogy 101. General Zoölogy. PROFESSOR GREGG. 5 points.**

G.S. Zoölogy 111. Evolution of Man. PROFESSOR MCGREGOR. 3 points.

EXAMINATION GROUPING OF BARNARD COLLEGE COURSES

1951-1952

Courses in Barnard College are arranged in examination groups in order to avoid conflicts on the examination schedule. These groups are indicated by Arabic boldface numerals in brackets immediately following the statement of points. *Group 0* includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination (except *Group 0*) *without making special arrangements through the Registrar's office for doing so.*

GROUP 1

M., W., and F. at 9
Chemistry 41A, 42A (and Th. at 1)
English 35, 36
English 81; 86
General Biological Science
German 3, 4
German 30 (W. and F. at 9 and Th. at 1)
History 11-12
Latin 3; 4
Mathematics 1; R31; 110
Psychology 26 (M. and W. at 9)
Zoölogy 1-2
Zoölogy 1a-2a

GROUP 2

M., W., and F. at 10
Chemistry 23
Chemistry 24; 26; 150
Economics 21; 22
English 52; 53
English 69, 70
Fine Arts 69, 70
French 21-22
Geography 3
Geography 10
German 5, 6
Greek 11; 12
History 9-10
History 25, 26
Mathematics R1; 24; 33
Mathematics 43
Music 35-36
Philosophy 61-62
Psychology 27; 28
Sociology 41; 42
Spanish 15a-16a
Zoölogy 15

GROUP 3

M., W., and F. at 11
Botany 55-56 (M. and W. at 11)
Botany 61 (M. at 11)
Chemistry 105, 106
Classical Civilization 57, 58
Economics 19, 20
English 75 (M., W., and F. at 11 and Th. at 1)
Fine Arts 91, 92
French 23, 24
French 33, 34 (M. and W. at 11)
Geography 7
Geography 12
German 7, 8
Greek 25; 26
History 3-4
Philosophy 4; 5
Physics 3-4
Physics 3a-4a
Psychology 9

Religion 31
Sociology 1-2
Spanish 3a; 4a
Spanish 17-18

GROUP 4

M., W., and F. at 1
Botany 50 (M. and W. at 1)
Botany 151; 152 (M. and W. at 1)
Chemistry 145, 146 (M. and F. at 1)
Economics 13, 14
Economics 123-124 (M. and W. at 1 and W. at 2)
English 61, 62
Fine Arts 41
French 11, 12; 25, 26; 31, 32
Geography 15, 16
German 3a, 4a
Government 21, 22
History 27, 28
Latin 11; 12
Mathematics 31-32; R32; R33
Music 31-32 (M. and F. at 1 and W., 1-3)
Philosophy 43

GROUP 5

M., W., and F. at 2
Anthropology 5-6 (M. and W. at 2)
Economics 15; 16
English 65; 66
Fine Arts 51, 52
French R5
French 39-40 (M. and W. at 2)
Geology 26; 27 (M. at 2 and W., 2-4)
Greek 1-2
History 57, 58 (also Religion 57, 58)
History 83, 84 (M. and W. at 2)
Physics R5
Religion 57, 58
Sociology 33; 38

GROUP 6

Tu. and Th. at 9
Botany 51-52 (Tu. and Th. at 9, Th. at 1)
Botany 51a-52a (Tu. and Th. at 9, Th. at 1)
Classical Civilization 66
Economics R17
Economics 29 (Tu. and Th. at 9 and Tu. at 11)
Economics 32 (Tu. and Th. at 9 and Tu. at 11)
English 43, 44 (Tu. and Th., 9-11)
Foundations of Language Learning
Geography 1-2 (Tu. and Th. at 9 and Th. at 1)
Latin 25; 26 (Tu. and Th. at 9 and Th. at 1)
Philosophy 41-42
Religion 43-44
Spanish 23-24
Zoölogy 3; R13

GROUP 7

Tu. and Th. at 10
 Anthropology 1, 2
 Botany 58
 Chemistry 1-2 (Tu. and Th. at 10 and third hour S. at 10 or F. at 1)
 Chemistry 1a-2a (Tu. and Th. at 10 and F. at 1)
 Economics 17
 Economics 18
 English 79, 80 (Tu. and Th. at 10 and Th. at 3)
 Fine Arts 1-2 (Tu. and Th. at 10 and Th., 2-4)
 French 9, 10
 Geology 15
 Geology 16 (Tu. and Th. at 10 and a third hour)
 Government 11, 12 (Tu. and Th., 9:35-10:50)
 History 37, 38
 History 43, 44 (Tu. and Th. at 10 and Th. at 2)
 Modern Living RA1
 Philosophy 22 (Tu. and Th. at 10 and Th. at 1)
 Philosophy 45, 46
 Philosophy 71
 Psychology 21
 Psychology 68
 Spanish 13, 14
 Zoology 7; 8

GROUP 8

Tu. and Th. at 11
 Classical Civilization 77
 English 84 (Tu. and Th. at 11 and Th. at 1)
 Fine Arts 65; 66 (Tu. and Th. at 11 and third hour)
 Geology 1; 2 (Tu. and Th. at 11, Th. at 1)
 Geology 1a, 2a (Tu. and Th. at 11, Th. at 1)
 German 25, 26 (Tu. and Th. at 11 and Th. at 1)
 Government 27, 28 (Tu. and Th. at 11 and a third hour)
 Italian 3, 4 (Tu., Th. at 11 and F. at 2)
 Music 1-2 (Tu. and Th. at 11 and Th. at 1)
 Philosophy 70 (Tu., Th. at 11 and a third hour)
 Psychology 24
 Psychology 25 (Tu. at 9 and 11 and Th. at 11)
 Religion 40
 Zoology 14

GROUP 9

Tu. and Th. at 2
 Economics 27; 28 (Tu. at 2 and Th., 2-4)
 English 71, 72 (Tu. at 2 and Th., 2-4)
 Fine Arts 75, 76 (Tu. and Th. at 2 and third hour)
 Government R15; R16 (Tu. at 2 and Th., 2-4)
 Government 17; 18 (Tu., W., and Th. at 2)
 Government 25, 26 (Th., 1-3)
 Government 31, 32 (Tu. and Th. at 2 and W. at 3)
 Philosophy 75 (Th., 1-3)
 Psychology 12 (Tu. at 2 and Th., 1-4)
 Religion 4 (Th., 2-4)
 Religion 22; 25; 105, 106
 Sociology 31 (Tu., 2-4 and Th. at 2)
 Sociology 134 (Tu., 2-4)
 Spanish 19
 Spanish 22

GROUP 10

M., W., and F., at 3
 Anthropology 14 (M. and W. at 3)
 Anthropology 17 (M. and W. at 3)
 Botany 60 (M. at 4)
 Italian 19, 20
 Mathematics 7-8
 Philosophy 81, 82 (M. and W. at 3 and third hour)
 Psychology 37
 Religion 19-20
 Sociology 34; 35

GROUP 11

Psychology 1 or R1 (Sections)
 Psychology 7-8 (Sections)
 Psychology 47; 48 (Hours to be arranged)

GROUP 12

Government 3, 4 (Sections)
 Government 44 (Th., 4:30-6:10)
 Modern Living A1 (Sections)
 Sociology 21-22 (Th., 3-5 and third hour)

GROUP 13

English 47, 48 (Tu., 3-5 and Th. at 3)
 English 57; 58 (Th., 2-4)
 English 67, 68 (Tu. and Th. at 3 and F. at 2)
 Geology 30 (Th., 3-5)
 German 52 (Th., 2-4)
 Government 13 (Tu., 4-6)
 Government 19 (Th., 4-6)
 Mathematics 22; R22 (Sections)
 Spanish 9, 10 (Sections)

GROUP 14

French 1-2 (Sections)
 French 3, 4 (Sections)
 French R4 (Sections)
 French 5, 6 (Sections)
 French 5x, 6x (Sections)
 French 7, 8 (Sections)

GROUP 15

German 1-2 (Sections)

GROUP 16

History 1-2 (Sections)

GROUP 17

Italian 1-2 (M., Tu., W., Th., F. at 9)
 Spanish 1-2 (Sections)
 Spanish 3, 4 (Sections)
 Spanish 15-16 (Sections)

GROUP 18

Economics 1-2 (Sections)

GROUP 0

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. *Group 0* includes courses which ordinarily do not have set examinations.

Anthropology 51, 52
 Botany 161, 162
 Chemistry 41b, 42b; 63, 64; 99; 107, 108; 137, 138
 Economics 51, 52; 61, 62
 English A1-A2
 English A3, A4; D1-D2
 English 1, 2; 3, 4
 English 5, 6
 English 9
 English 11, 12
 English 14
 English 15, 16
 English 20
 English 21-22
 English 23, 24
 English 27, 28
 English 91, 92; 93, 94
 Fine Arts 97-98
 Foreign Areas Studies 41-42
 Foreign Areas Studies 51-52
 Foreign Areas Studies 61-62
 German 01-02
 German 9, 10
 Government 45, 46; 51, 52; 53; 54; 61, 62; 63, 64
 Greek 19-20

Greek 29-30
History 45, 46; 47, 48; 49, 50
Italian 5, 6; 21, 22
Latin 19-20
Latin 29-30
Music 79, 80
Music 83, 84
Music 91, 92
Music 93, 94
Philosophy 53, 54
Philosophy 63, 64
Philosophy 65-66
Religion 35, 36; 110
Sociology 97, 98

Spanish 5, 6; 5x, 6x
Spanish 11-12
Spanish 29, 30; 31-32
Zoölogy 61, 62

Courses for which examinations will be arranged
later.

French 19-20 (Sections)
Government 5, 6 (Sections)
Philosophy 1 (R1)
Recreational Leadership R1, 1
Religion 1-2; 5; 7; 9, 10; 24; 53; 55; 56; 111-112;
115; 116; 117-118; 120; 124; 126; 130
Sociology 197-198

Hours	MONDAY	TUESDAY	WEDNESDAY
A.M.	Chemistry 41a, 42a Economics 1-2 (IV) English A (Ia) English 35, 36; 81; 86 French 1-2 (I) French 5, 6 (I); 5x, 6x (I) French 7, 8 (I) General Biological Science German 1-2 (I) German 3, 4 Government 5, 6 (I) History 1-2 (I, II) *History 5, 6 History 11-12 Italian 1-2 Latin 3, 4 Mathematics 1; R31 Mathematics R22 (I); 22 (I) *Mathematics 105; 110 *Music 23-24 Philosophy 1 (I); R1 (I) *Physics 6; *63-64 Psychology 26 Spanish 1-2 (I) Spanish 3, 4 (I) Zoology 1-2; 1a-2a	Botany 51-52 Botany 51a-52a Classical Civilization 66 Economics R17; 29; 32 English A3, A4 English 43, 44 Foundations of Language Learning French 1-2 (I) French 3, 4 (III, IV) Geography 1-2 German 01-02 (I) Government 11, 12 History 21-22 Hygiene A1 (II) Italian 1-2 Latin 25, 26 Mathematics 22 (II) Mathematics R22 (II); 28 Music 37-38 Philosophy 41-42 Physics 7, 8; 65-66; 66a Psychology 25 Religion 9, 10 (I); 43-44 Spanish 1-2 (I) Spanish 23-24 Zoology 3; R13	Chemistry 41a, 42a Economics 1-2 (IV) English A (Ia) English 35, 36 English 81; 86 French 1-2 (I) French 5, 6 (I); 5x, 6x (I) French 7, 8 (I) General Biological Science German 1-2 (I) German 3, 4 German 30 Government 5, 6 (I) History 1-2 (I, II) *History 5, 6 History 11-12 Italian 1-2 Latin 3, 4 Mathematics 1; R31 Mathematics R22 (I); 22 (I) *Mathematics 105; 110 *Music 23-24 Philosophy 1 (I); R1 (I) *Physics 6; *63-64 Psychology 26 Spanish 1-2 (I) Spanish 3, 4 (I) Zoology 1-2; 1a-2a
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10	Chemistry 23; 24 Chemistry 26 Chemistry 105, 106; 150 Economics 1-2 (I) Economics 21, 22 English A (IIa, b) English 52; 53 English 69, 70 Fine Arts 69; 70 French 5x, 6x (II); R4 (I) French 7, 8 (II) French 21-22 Geography 3; 10 German 5, 6 Greek 11, 12 History 1-2 (III) History 9, 10 History 25, 26 Mathematics R1; 24; 33 Mathematics 43; *104 Music 35-36 Philosophy 1 (II); R1 (II) Philosophy 61-62 Psychology 1 (I, II); R1 (I, II) Psychology 27, 28 Sociology 41, 42 Spanish 15-16 (I); 15a-16a Zoology 15	*Anthropology 1, 2 **Botany 3-4; 58 Chemistry 1-2 Chemistry 1a-2a Economics 17, 18; 1-2 (III) English A (VIa) English 3, 4 English 43, 44 English 79-80 Fine Arts 1-2 French 9, 10 Geology 15, 16 German 9, 10 Government 11, 12 History 1-2 (VI) History 37, 38; 43, 44 Hygiene A1; RA1 (III) *Music 37, 38 Philosophy 22; 45, 46 Philosophy 71 Psychology 21; 68 Religion 5 Religion 24 (I) Spanish 13, 14 Zoology 7, 8	Chemistry 23; 24; 26 Chemistry 150 Economics 1-2 (I) Economics 21, 22 English A (IIa, b) English 52; 53 English 69, 70 Fine Arts 69; 70 French 5x, 6x (II); R4 (I) French 7, 8 (II) French 21-22 Geography 3; 10 German 5, 6 Greek 11, 12 History 1-2 (III) History 9, 10 History 25, 26 Mathematics R1; 24; 33 Mathematics 43; *104 Music 35-36 Philosophy 1 (II); R1 (II) Philosophy 61-62 Psychology 1 (I, II); R1 (I, II) Psychology 27, 28 Sociology 41, 42 Spanish 15-16 (I); 15a-16a Zoology 15
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Hours	THURSDAY	FRIDAY	SATURDAY
A.M.	Botany 51-52 Botany 51a-52a Classical Civilization 66 Economics R17; 29; 32 English A3, A4 English 43, 44 Foundations of Language Learning French 1-2 (I) French 3, 4 (III, IV) Geography 1-2 German 01-02 (I) Government 11, 12 *History 21-22 Hygiene A1 (II) Italian 1-2 Latin 25, 26 Mathematics 22 (II); R22 (II) *Music 37-38 Philosophy 41-42 *Physics 7, 8; *65-66; *66a Religion 9, 10 (I) Religion 43-44 Spanish 1-2 (I) Spanish 23-24 Zoölogy 3; R13	Chemistry 41a, 42a Economics 1-2 (IV) English A (Ia) English 35, 36 English 81; 86 French 1-2 (I) French 5, 6 (I); 5x, 6x (I) French 7, 8 (I) General Biological Science German 1-2 (I) German 3, 4 German 30 Government 5, 6 (I) History 1-2 (I, II) *History 5, 6; 11-12 Italian 1-2 Latin 3, 4 Mathematics 1; R31 Mathematics 22 (I); R22 (I) *Mathematics 105; 110 *Music 23-24 Philosophy 1 (I); R1 (I) *Physics 6; 63-64 Spanish 1-2 (I) Spanish 3, 4 (I) Zoölogy 1-2; 1a-2a	French 3, 4 (III, IV) Mathematics 22 (II); R22 (II) *Physics 7, 8; *65-66; *66a
9	Anthropology 1, 2 *Botany 3-4 Botany 58 Chemistry 1-2 Chemistry 1a-2a Economics 1-2 (III) Economics 17, 18 English A (VIa) English 3, 4 English 43, 44 English 79, 80 Fine Arts 1-2 French 9, 10 Geology 15, 16 German 9, 10 Government 11, 12 History 1-2 (VI) History 37, 38; 43, 44 Hygiene A1 (III); RA1 *Music 37-38; *119-120 Philosophy 22; 45, 46 Philosophy 71 Psychology 1 (III); R1 (III) Psychology 21; 68 Religion 5; 24 (I) Spanish 13, 14 Zoölogy 7, 8	Chemistry 23; 26; 150 Economics 1-2 (I) Economics 21, 22 English A (IIa, b) English 52; 53 English 69, 70 Fine Arts 69, 70 French 5x, 6x (II); R4 (I) French 7, 8 (II) French 21-22 Geography 3; 10 German 5, 6 Greek 11, 12 History 1-2 (III) History 9, 10 History 25, 26 Mathematics R1; 24; 33 Mathematics 43; *104 Music 35-36 Philosophy 1 (II); R1 (II) Philosophy 61-62 Psychology 1 (I, II); R1 (I, II) Psychology 27, 28 Sociology 41, 42 Spanish 15-16 (I); 15a-16a Zoölogy 15	Chemistry 1-2 English A (VIa) History 1-2 (VI)
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Hours	MONDAY	TUESDAY	WEDNESDAY
P.M.	Botany 50; 151-152 Chemistry 145, 146 Economics 13, 14; 123-124 †Education 51, 52 English A (IVa, b) English 21-22 (II) English 61, 62 Fine Arts 41 French 3, 4 (I); 5, 6 (III); 5x, 6x (IV); 7, 8 (IV) French 11, 12; 19-20 (I) French 25, 26; 31, 32 Geography 15, 16 German 3a, 4a Government 21, 22 History 27, 28 Hygiene A1 (I) Latin 11, 12 Mathematics 31-32; R33; R32 Music 31-32 Philosophy 43 Philosophy 65-66 Psychology 7-8 (I, II) Spanish 3, 4 (II)		Botany 50; 151-152 Economics 1-2 (III); 13, 14; 123-124 †Education 51, 52 English A (IVa, b) English 21-22 (II) English 61, 62 Fine Arts 41 French 3, 4 (I); 5, 6 (III) French 5x, 6x (IV); 7, 8 (IV) French 11, 12 French 19-20 (I) French 25, 26; 31, 32 Geography 15, 16 German 3a, 4a Government 21, 22 History 27, 28 Hygiene A1 (I) Latin 11, 12 Mathematics 31-32; R32; R33 Music 31-32; *121-122 Philosophy 43 Psychology 7-8 (I, II) Religion 56 Spanish 3, 4 (II)
1:10			
2:10	Anthropology 5-6 Economics 1-2 (II); 15, 16 †Education 51, 52 English A (Va, b) English 5, 6; 11, 12 English 23, 24 English 65, 66 Fine Arts 51, 52 French 3, 4 (II) French R4 (II); R5 French 19-20 (II) French 39-40 Geology 26; 27 Government 3, 4 (II) Government 5, 6 (II) Greek 1-2 History 49, 50; 57, 58 History 83, 84 *Music 5; *107, 108 *Music 131-132 Philosophy 1; R1 (IV) Physics R5 Psychology 7-8 (I, II) Religion 57, 58 Sociology 33 Spanish 1-2 (II)	Economics 27, 28 English 71 Fine Arts 75, 76 *Geology 7 Government R15; R16 Government 31, 32; 17, 18 *Music 73-74 Psychology 7-8 (III, IV); 12 Religion 22; 105, 106 Sociology 31; 134 Spanish 1-2 (II) Spanish 19; 22	Anthropology 5-6 Economics 1-2 (II); 15, 16; 123-124 English A (Va, b) English 5, 6; 11, 12 English 23, 24 English 65, 66 Fine Arts 51, 52 French 3, 4 (II) French R4 (II); R5 French 19-20 (II) French 39-40 Geology 26; 27 Government 3, 4 (II) Government 5, 6 (II); 17, 18 Greek 1-2 History 57, 58 History 83, 84 *Music 5; 31-32 *Music 121-122 Philosophy 1 (IV); R1 (IV) Physics R5 Psychology 7-8 (I, II) Religion 56; 57, 58 Sociology 33 Spanish 1-2 (II)
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4:10	Botany 60 **Drawing 1-2 (II) English 14 Recreational Leadership 1, R1 Religion 111-112	**Drawing 1-2 (III) English 47 English 91, 92 Fine Arts 97-98 Government 13 History 45, 46 **Music 13-14 Psychology 7-8 (III, IV)	Economics 51, 52 English A (VIIIa) English 15, 16 English 27, 28 Government 61, 62; 63, 64 History 47, 48 *Physics 59 Recreational Leadership 1; R1 Religion 7 Sociology 197, 198
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 Courses marked with a dagger (†) are Teachers College courses open to Barnard students.

Hours	THURSDAY	FRIDAY	SATURDAY
P.M.	Botany 51-52; 51a-52a Chemistry 41a, 42a English 9 English 20 English 21-22 (III) English 74; 84 French 7, 8 (III) Geography 1-2 Geology 1-2; 1a-2a German 9, 10 German 25, 26 German 30 Government 25, 26 Latin 25, 26 Music 1-2 *Music 73-74 Philosophy 22; 75 Psychology 12 Spanish 9-10 (II) Spanish 11-12 (I)	Chemistry 1-2; 1a-2a Chemistry 145-146 Economics 13, 14 English A (IVa, b) English 21-22 (II) English 61, 62 Fine Arts 41 French 3, 4 (I); 5, 6 (III) French 5x, 6x (IV) French 11, 12; 7, 8 (IV) French 25, 26; 31, 32 Geography 15, 16 German 3a, 4a Government 21, 22 History 27, 28 Latin 11, 12 Mathematics 31-32; R33; R32 Music 31-32 Philosophy 43 Spanish 3, 4 (II)	
1:10			
2:10	Economics 27, 28 English 3, 4 English 57, 58; 71 Fine Arts 1-2; 75, 76 German 52 Government 11, 12; R16; R15 Government 17, 18 Government 25, 26 Government 31, 32 History 43, 44 *Music 41-42 *Music 73-74; *107, 108 Philosophy 75 Psychology 7-8 (III, IV); 12 Religion 1-2; 4 Religion 22; 25 Religion 105, 106 Sociology 31 Spanish 1-2 (II) Spanish 11-12 (II) Spanish 19; 22	Economics 1-2 (II); 15, 16 English A (Va, b) English 5, 6; 65, 66; 67, 68 Fine Arts 51, 52 French 3, 4 (II) French R4 (II); R5 Government 3, 4 (II) Government 5, 6 (II) Greek 1-2 History 57, 58 Italian 3, 4 *Music 5 Philosophy 1, R1 (IV) Physics R5 Religion 57, 58 Sociology 33; 38 Spanish 1-2 (II)	
3:10	**Drawing 1-2 (II, III) Economics 27, 28 English 47; 57, 58 English 67, 68; 71 English 79, 80 Fine Arts 1-2 Geology 30 German 52 Government R16; R15 *Music 41-42 Psychology 7-8 (III, IV) Psychology 12 Religion 4; 25 Sociology 21, 22 Spanish 9-10 (III)	Chemistry 99 Italian 19, 20 Mathematics 7-8 *Music 6 Psychology 37 Sociology 34; 35; 38	
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